

DCN: C00-SAI-90499-01-06829

February 15, 2005

Mr. Mark Lafferty Chevron Environmental Management Company 6001 Bollinger Canyon Road, Building K San Ramon, California 94583-0804

Re: Well Destruction and Well Installation Activities

Chevron Service Station 9-0499

404 Soquel Avenue Santa Cruz, California

Dear Mr. Lafferty:

Science Applications International Corporation (SAIC) has prepared this report on behalf of Chevron Environmental Management Company (ChevronTexaco) to document field activities at the referenced site. This work was performed in accordance with the SAIC Work Plan for Well Destructions and Replacement, dated December 1, 2003, which was approved by the California Regional Water Quality Control Board (RWQCB) Central Coast Region in a letter to ChevronTexaco dated December 4, 2003. The following documents well destruction and well installation activities performed at the site on December 22, 2003 and April 29, 2004, respectively. These activities were implemented as part of a station upgrade project.

SITE HISTORY

Site Description

The site is located at the northeastern corner of Soquel Avenue and Ocean Street in Santa Cruz, California (Figure 1). Currently, the property is occupied by an active Chevron-branded service station. Four 12,000-gallon double-wall fiberglass USTs (three for unleaded gasoline and one for methanol storage) were located in the southern section of the site, and three product dispenser islands were located in the northern and central portions of the site. The service station building included three hydraulic hoists and one clarifier. A 50-gallon hydraulic oil tank and a 1,000-

gallon waste oil UST were located southeast of the station building. All of these structures were removed in February 2004.

The removed USTs were replaced with two gasoline USTs located in a common excavation in the southwestern portion of the site. In addition, six product dispenser islands were installed in the central portion of the site. The station building is located in the southeast corner of the property. Current and former station features are included on Figure 2.

Previous Investigations

Soil and Groundwater Assessment, 1988 through 1991: ChevronTexaco began investigations of soil and groundwater conditions beneath the site in June 1988 when petroleum hydrocarbon odors were noted in an excavation for a Chevron sign located in the northwest corner of the site. In July 1988, ChevronTexaco completed a soil gas survey, which revealed the presence of petroleum hydrocarbons in soils beneath the site. That same year, monitoring wells MW-1 through MW-6 were installed to assess groundwater conditions (Figure 2). Separate-phase petroleum hydrocarbons (SPH) were measured in Well MW-4, located near the UST complex.

In February 1989, ChevronTexaco completed a second soil gas survey to assess whether petroleum hydrocarbons had migrated offsite. The second soil gas survey revealed the possibility of two plumes: first in the area of the UST complex in the southern portion of the site; and second, on the northwest portion of the site.

In July 1989, ChevronTexaco installed four additional wells, MW-7 through MW-10, to further delineate the extent of the groundwater plume. In July 1991, ChevronTexaco installed extraction wells E-1 and E-2. Well E-2 was installed as a replacement for Well MW-6.

Well Destructions, 1991: In April 1991, ChevronTexaco destroyed wells MW-1, MW-2 and MW-4. Wells MW-2 and MW-4 were located adjacent to the UST complex in the southern portion of the site, and Well MW-1 was located adjacent to the waste oil UST in the southeastern portion of the site. The wells were drilled out to facilitate the removal and replacement of the USTs.

<u>UST and Product Piping Replacement and Sampling, 1991</u>: In May 1991, ChevronTexaco removed one 1,000-gallon waste oil UST located in the southeast portion of the site, and one 6,000-gallon and two 10,000-gallon gasoline USTs located in a common excavation in the south portion of the site. The resulting waste oil UST excavation measured 10 feet by 10 feet by 13 feet deep. The gasoline UST excavation measured approximately 38 feet long by 32 feet wide. Groundwater was encountered at a depth of 13 feet below ground surface (bgs). Approximately 672 cubic yards (cyds) of soil were removed from the gasoline UST excavation, and approximately 125 cyds soil were removed from the waste oil UST excavation.

One soil sample was collected at a depth of 13 feet bgs from the center of the waste oil UST excavation. A total of eight soil samples were collected from the sidewalls of the gasoline UST excavation at a depth of 12 feet bgs. In addition, two groundwater samples were collected from the gasoline UST excavation. Gasoline range total petroleum hydrocarbons (TPHg) was detected in two samples collected from the northwest sidewall of the gasoline UST excavation (in the area of former Well MW-4) at 1,800 parts per million (ppm) and 220 ppm. The groundwater samples contained concentrations of TPHg at 200,000 parts per billion (ppb) and 1,000,000 ppb and benzene at 2,900 ppb and 4,100 ppb. No petroleum hydrocarbon constituents were detected in the soil sample collected from the waste oil excavation.

A total of six soil samples were collected beneath the locations of removed product piping and dispensers at depths between 2 and 4 feet bgs. TPHg was detected in three soil samples at concentrations ranging from 1.4 ppm to 3.2 ppm. Benzene was detected in four soil samples at concentrations ranging from 0.046 ppm to 0.30 ppm.

During utility trenching, the contractor encountered what appeared to be petroleum hydrocarbons in soil in the northwest corner of the site. Approximately 10 cyds of soil were excavated from this area. One soil sample was collected at the base of the excavation at 13 feet bgs and contained 190 ppm TPHg and 0.076 ppm benzene.

UST and Product Piping Sampling, 2004: On February 26, 2004, SJ Weaver & Associates (SJ Weaver) of Signal Hill, California, performed the station demolition and UST, line and dispenser removal activities. Four 12,000-gallon fuel USTs, one 1,000-gallon waste oil UST, one 50-gallon hydraulic oil tank, and associated product dispensers and piping were removed, inspected and transported off-site for disposal. In addition, three hydraulic hoists and a clarifier were removed during the demolition of the station building prior to February 26, 2004. SAIC collected eight UST excavation soil samples, seven product dispenser soil samples, four product piping soil samples, one waste oil UST soil sample, one hydraulic oil tank soil sample, one clarifier soil sample, and three hoist soil samples during the February 2004 UST and dispenser piping removal event.

The UST excavation was completed to an approximated depth of 14 feet bgs. SAIC collected a 'grab' groundwater sample from the standing water, which was present in the UST excavation at a depth of approximately 10 feet bgs. Concentrations of 20,000 ppb TPHg, 330 ppb benzene, 260 ppb methyl tert-butyl ether (MTBE), 70,000 ppb methanol, and 19,000 ppb ethanol were detected in the groundwater sample. All other fuel oxygenates were not detected at or above the respective laboratory reporting limits in the groundwater sample collected from the UST excavation. Approximately 250 cyds of pea gravel from the UST pit were stockpiled, sampled, and subsequently used as backfill upon approval of Santa Cruz County Environmental Health Service Agency (SCCEHSA) inspector.

On March 9, 2004, the area of the former clarifier was over-excavated to a depth of approximately 9 feet bgs. SAIC collected a soil sample from the bottom of the excavation. An estimated 6 cyds of soils from the over-excavation activities were removed, stockpiled, and sampled. Upon receipt of the laboratory analytical results that yielded no TPHg, benzene, toluene, ethylbenzene, xylenes (BTEX), or MTBE at or above laboratory reporting limits in soils greater than 6 feet bgs, the over-excavated pit was backfilled with the stockpiled soils as approved by the SCCEHSA inspector.

On April 12, 2004, SJ Weaver unearthed an unidentified 200-gallon UST containing approximately 100 gallons of used oil. The area was over-excavated to a depth of approximately 9.5 feet bgs on April 15, 2004. SAIC collected four soil samples from the unidentified used oil UST excavation. An estimated 50 cyds of soils were removed, stockpiled, and sampled.

Based on soil analytical results, low concentrations of petroleum hydrocarbons and MTBE were detected in soils during the fuel UST, product dispenser, and piping removal activities. Given these analytical results, the SCCEHSA inspector did not require additional soil excavation. Upon further investigation of soils beneath the clarifier located on the eastern portion of the property, and the unidentified used oil UST located in the central portion of the site, additional soil excavation was not necessary.

Groundwater Monitoring, 1988 through 2004: Groundwater has been monitored and sampled at the site on a quarterly basis from 1988 to 1995, and on a semi-annual basis from 1996 to the present. Petroleum hydrocarbons have been detected in wells located near the UST complex (wells MW-2, MW-3 and MW-4) and in the northwest corner of the site (wells E-1 and E-2).

Hydrogeology

The site lies at an elevation of approximately 32 feet above mean sea level. Subsurface conditions have been explored to depths of up to approximately 24.5 feet bgs. Previous investigations have shown the site to be underlain with unconsolidated fine- and coarse-grained alluvial deposits. In general, silty clay occurs from below the paved surface to depths ranging from 3 to 6 feet bgs. The fine-grained surficial soils were underlain by horizons of sandy clay and gravelly sand to depths of up to 23 feet bgs. A siltstone unit was encountered below the unconsolidated clays and sands at depths greater than 19 feet bgs.

Groundwater occurs beneath the site at depths between approximately 6 and 14 feet bgs, and has been consistently calculated to flow in a westerly to northwesterly direction at a very shallow gradient.

SCOPE OF WORK

Prior to station renovation activities, SAIC properly destroyed groundwater monitoring wells

MW-3 and MW-5. Following site construction activities, SAIC installed one replacement monitoring well, designated MW-3A, in the downgradient direction (west) of the former and existing UST system.

Pre-Field Activities

Well destruction permits for groundwater monitoring wells MW-3 and MW-5, and a well construction permit for Well MW-3A were obtained from the SCCEHSA prior to commencing field activities (Attachment A). SAIC prepared a site-specific health and safety plan, scheduled an inspector from the SCCEHSA, and contacted Underground Service Alert at least 48 hours prior to drilling activities.

Well Destruction Activities

The well destructions were completed on December 22, 2003. Prior to drilling, the well boxes were removed using a jack hammer. Monitoring wells MW-3 and MW-5 were destroyed by over-drilling the well casings using a hollow-stem auger drill rig provided by Gregg Drilling of Martinez, California. To comply with SCCEHSA requirements, the wells were drilled out to remove all well casing and annular filter pack material. Each well was drilled out to total well depth using 10-inch diameter hollow-stem augers. The well borings were then filled to the ground surface with neat cement. A SCCEHSA inspector observed and approved the well destructions. The locations of the destroyed wells are presented in Figure 2.

Approximately two cyds of drill cuttings generated from the drilling activities were stockpiled on-site. A four-point composite sample was collected from the stockpile and submitted for chemical analyses to a California state-certified analytical laboratory to characterize the soil for disposal. The stockpile was transported on January 5, 2004, by IWM, Inc. (IWM), of Milpitas, California, to the Republic Services Vasco Road Landfill in Livermore, California.

Well Installation Activities

SAIC installed groundwater monitoring Well MW-3A on April 29, 2004. The well boring was drilled to a total depth of 20 feet bgs using 10-inch diameter hollow-stem auger drilling equipment. Soil samples for lithologic logging and potential laboratory analysis were collected at approximate 5-foot depth intervals using a split-spoon sampler lined with 2-inch diameter brass liners. An SAIC field geologist logged the well boring using the Unified Soil Classification System and standard geologic techniques, and field screened selected soil samples for petroleum hydrocarbons using a photo-ionization detector. The borehole was converted to a groundwater monitoring well by the installation of 4-inch diameter Schedule 40 polyvinyl chloride well casing. The well was installed with the 0.020-inch factory-slotted screened interval placed between the depths of 6 and 20 feet bgs. Upon completion of well construction activities,

the well was fitted with a locking cap. A flush-mounted traffic rated well box was installed over the wellhead after station upgrade activities were completed. The boring log with well construction details for Well MW-3A is presented in Attachment B.

Soil samples for potential laboratory analysis were sealed, labeled, and placed in an ice-filled cooler. The samples were submitted to a California state-certified analytical laboratory under chain-of-custody documentation. The soil samples were analyzed for the presence of TPHg, ethanol, and methanol by EPA Method 8015; benzene, toluene, ethylbenzene, and xylenes (BTEX compounds) and fuel oxygenates MTBE, di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), tert-butyl alcohol (TBA), 1,2-dichloroethane (1,2-DCA), and 1,2-dibromoethane (EDB) by EPA Method 8260B.

Approximately 2.5 cyds of drill cuttings generated from the drilling activities were stockpiled on site pending consideration of disposal options. A four-point composite sample was collected from the stockpile and submitted for chemical analyses to a California state-certified analytical laboratory to characterize the soil for disposal. The stockpile was transported on June 1, 2004, by IWM to Republic Services Vasco Road Landfill in Livermore, California.

Monitoring Well Survey

Morrow Surveying of West Sacramento, California performed a well survey of all site wells on July 8, 2004. The wellheads and well box of each site well was surveyed for northing and easting, elevation, and latitude and longitude for reporting to the State of California Geotracker database. The survey data for wells MW-3A, MW-7 through MW-10, E-1 and E-2 is presented in Attachment C.

Groundwater Sampling Activities

On July 8, 2004, Well MW-3A was gauged, developed, and sampled by Gettler-Ryan, Inc. (G-R) of Dublin, California. Groundwater samples from all site wells were collected and placed in appropriate Environmental Protection Agency (EPA)-approved containers. The groundwater samples were labeled, placed in an ice-filled cooler, and transported under chain-of-custody to a California state-certified analytical laboratory for analysis. The groundwater samples for all site wells were analyzed for presence of TPHg and methanol by EPA Method 8015; BTEX compounds and MTBE by EPA Method 8021; and ethanol by EPA Method 8260B. The groundwater samples collected from wells MW-3A, MW-7, MW-9, E-1, and E-2 were also analyzed for fuel oxygenates MTBE, DIPE, ETBE, TAME, and TBA by EPA Method 8260. The groundwater samples from wells MW-3A and E-1 were also analyzed for the fuel oxygenate 1,2-DCA by EPA Method 8260.

The G-R semi-annual groundwater monitoring and sampling report is presented in Attachment D.

The G-R report includes well development field data sheet for Well MW-3A, field sampling data for each well sampled, tabulated historical and current groundwater elevation and analytical data, copies of certified analytical reports and chain-of-custody forms, and potentiometric surface map.

FINDINGS

Subsurface Conditions

Soils encountered during this investigation and previous investigations have shown the site to be underlain with unconsolidated fine- and coarse-grained alluvial deposits. Silt was encountered from below the paved surface to approximately 6 feet bgs. Underlying the silt unit, a coarse-grained horizon of sand was encountered from approximately 6 to 19 feet bgs. A siltstone unit was encountered beneath the sand at a depth below 19 feet bgs.

First-encountered groundwater in Well MW-3A was gauged at a depth of approximately 11 feet bgs on April 29, 2004. During well gauging and groundwater sampling activities performed by G-R on July 8, 2004, groundwater occurred in site wells at depths between 6.38 feet bgs to 10.78 feet bgs. Based on these data, groundwater flow beneath the site was calculated to be toward the northwest at hydraulic gradient of 0.002 to 0.007 foot/foot.

Soil Analytical Data

Selected soil samples collected from boring MW-3A were analyzed for the presence of TPHg, BTEX, and fuel oxygenates MTBE, DIPE, ETBE, TAME, TBA, 1,2-DCA, EDB, ethanol, and methanol.

TPHg, BTEX, and fuel oxygenates DIPE, ETBE, EDB, 1,2-DCA, methanol, and ethanol were not detected at or above laboratory reporting limits. The highest concentration of 0.082 ppm MTBE and was detected in the soil sample collected at a depth of 6 feet bgs. TAME and TBA were only detected in the soil sample collected at a depth of 6 feet bgs, at concentrations of 0.026 ppm and 0.13 ppm, respectively.

Soil analytical data are presented in Table 1, and the certified analytical report with chain-of-custody documentation is presented in Attachment E.

Groundwater Analytical Data

Groundwater samples were collected from all site wells by G-R during the second semi-annual 2004 sampling event. The groundwater samples were analyzed for TPHg, BTEX, MTBE, methanol and ethanol. Selected groundwater samples were also analyzed for fuel oxygenates DIPE, ETBE, TAME, TBA, and/or 1,2-DCA.

BTEX and fuel oxygenates DIPE, TBA, ETBE, methanol, and ethanol were not detected at or above laboratory reporting limits in the groundwater samples collected from site wells. The highest concentration of TPHg was detected at 170 ppb in Well E-1. The highest concentrations of MTBE and TAME were detected in Well MW-3A at concentrations of 45 ppb and 9 ppb, respectively.

Groundwater analytical data are summarized in the G-R semi-annual groundwater monitoring and sampling report in Attachment D. The distribution of dissolved TPHg, benzene, MTBE concentrations is presented on Figure 3.

CONCLUSIONS AND RECOMMENDATIONS

Based on a review of the current and historical groundwater data for the site, it appears that the dissolved petroleum hydrocarbon plume is stable and localized in the area of the former gasoline UST complex. Monitoring Well MW-3A has been added to the site groundwater monitoring and sampling program. SAIC recommends continuing groundwater monitoring and sampling activities for all site wells on a semi-annual basis. The next monitoring and sampling event is scheduled during January 2005.

CLOSING

Should you have any questions or comments regarding the contents of this letter, please contact Joe Muzzio of SAIC at (408) 356-0200.

Sincerely,

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

Staff Geologist

Jdseph Muzzio Program Manager C.E.G. 1672 JOSEPH J. MUZZIO

No. 1672

CERTIFIED

ENGINEERING

GEOLOGIST

STATE OF CALIFORNIT

Table:

1 – Soil Analytical Data

Figures:

1 - Site Vicinity Map

2 – Extended Site Map

3 - Dissolved Petroleum Hydrocarbon Concentration Map

Attachments:

A – Well Destruction Permits

B – Boring Log

C - Morrow Surveying Well Survey Data

D – Gettler- Ryan Inc. Semi-Annual Monitoring and Sampling Report E – Certified Analytical Reports and Chain-of-Custody Documentation

cc: Mr. Stephen Baiocchi, Santa Cruz County Environmental Health Department, 701 Ocean Street, Room 312, Santa Cruz, California 95060

Mr. Tom Sayles, Regional Water Quality Control Board, Central Coast Region 895 Aerovista Place, Suite 101, San Luis Obispo, CA 93401-7906

SAIC Document Control File



SOIL ANALYTICAL DATA

ChevronTexaco Service Station 9-0499 404 Soquel Avenue Santa Cruz, CA

Methanol (mg/kg)	<0.20 <0.20 <0.20 <0.20
Ethanol (mg/kg)	<0.20 <0.20 <0.20 <0.20
EDB (mg/kg)	<0.001 <0.001 <0.001 <0.001
1,2-DCA (mg/kg)	<0.001 <0.001 <0.001 <0.001
TBA (mg/kg)	0.13 <0.020 <0.020
TAME (mg/kg)	0.026 <0.001 <0.001
ETBE (mg/kg)	<0.001 <0.001 <0.001 <0.001
DIPE (mg/kg)	<pre><0.001 <0.001 <0.001 <0.001</pre>
MTBE (mg/kg)	0.082 <0.0005 0.005 0.003
Total Xylenes (mg/kg)	<0.001 <0.001 <0.001 <0.001
Ethyl- benzene (mg/kg)	<0.001 <0.001 <0.001 <0.001
Toluene (mg/kg)	<0.001 <0.001 <0.001 <0.001
Benzene (mg/kg)	<0.0005 <0.0005 <0.0005 <0.0005
TPHg (mg/kg)	↑ ↑ ↑ ↑ 0. 0. 0. 0.
Date Sampled	04/29/04 04/29/04 04/29/04 04/29/04
Sample Depth (feet)	0 6 1 6
Sample ID	MW-3A

Abbreviations:

= Total petroleum hydrocarbons calculated as gasoline TPHg

= Methyl tert-butyl ether MTBE

= Di-isopropyl ether DIPE

= Ethyl tert-butyl ether ETBE

Tert-amyl methyl ether TAME

= Tert-butyl alcohol

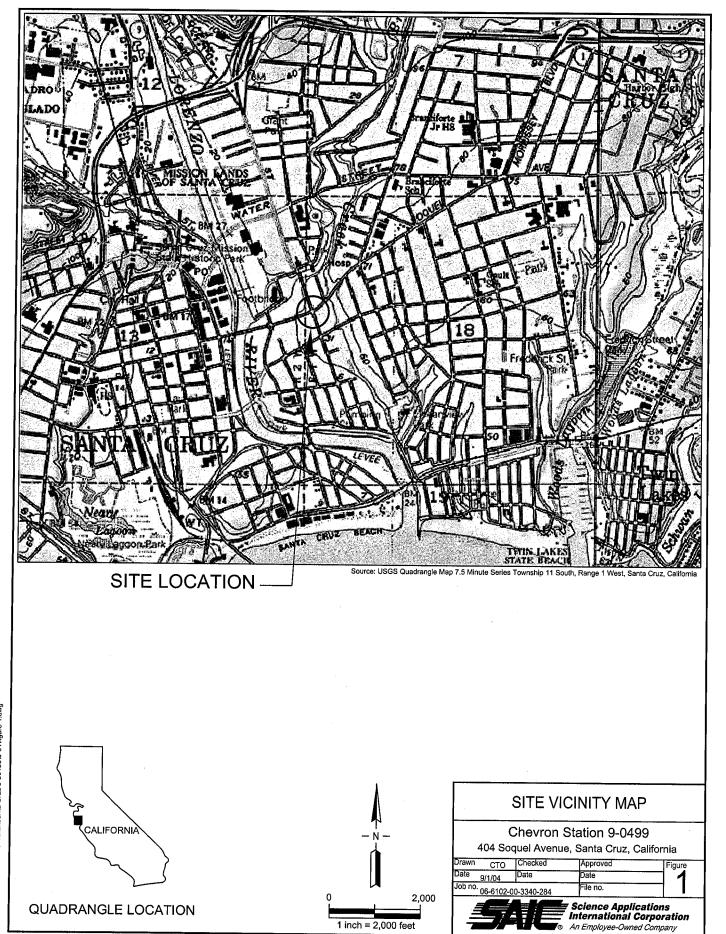
= 1,2-Dibromoethane = 1,2-Dichloroethane 1,2-DCA EDB

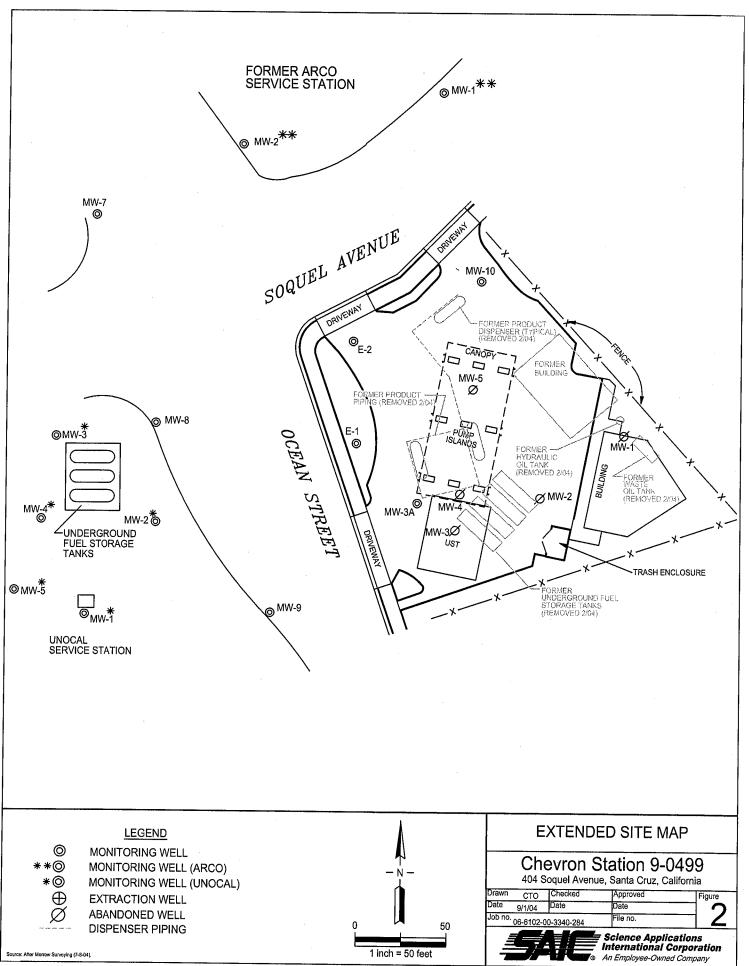
= milligrams per kilograms mg/kg

= Not detected at specified detection limit

TPHg, ethanol and methanol analyses performed by EPA Method 8015B modified.

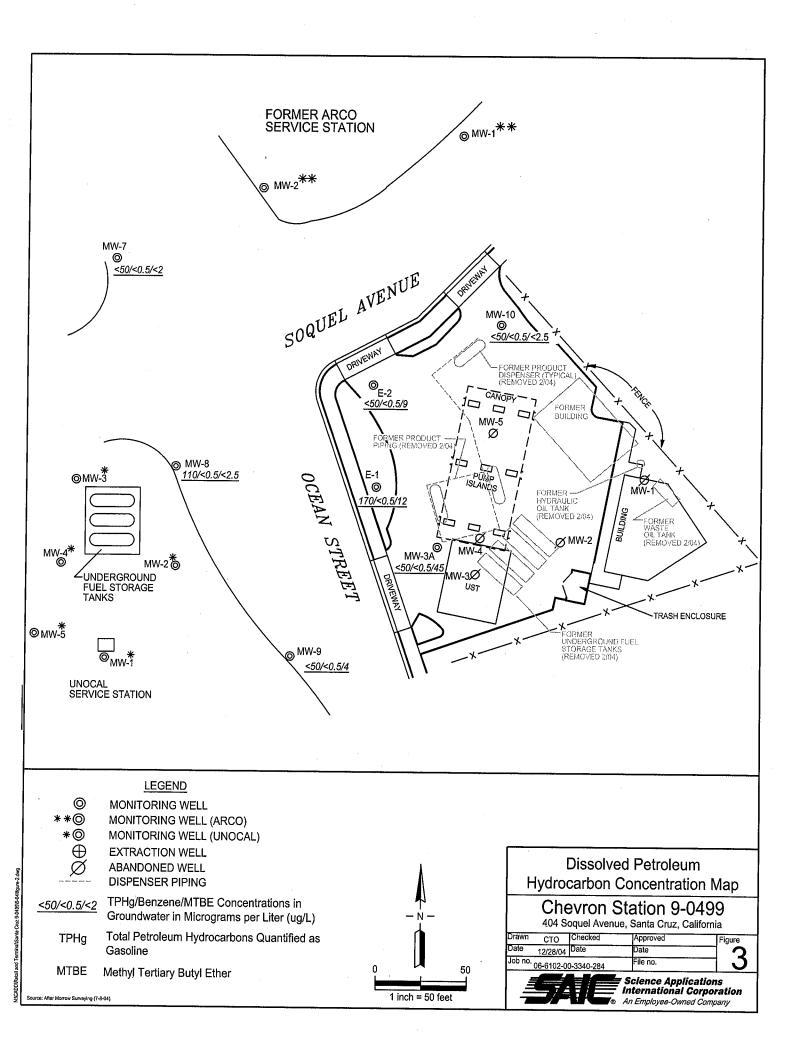
Benzene, toulene, ethylbenzene, total xylenes and fuel oxygenates MTBE, DIPE, ETBE, TAME, TBA, 1,2-DCA, and EDB analyses performed by EPA Method 8260B.





1 inch = 50 feet

Source: After Morrow Surveying (7-8-04).

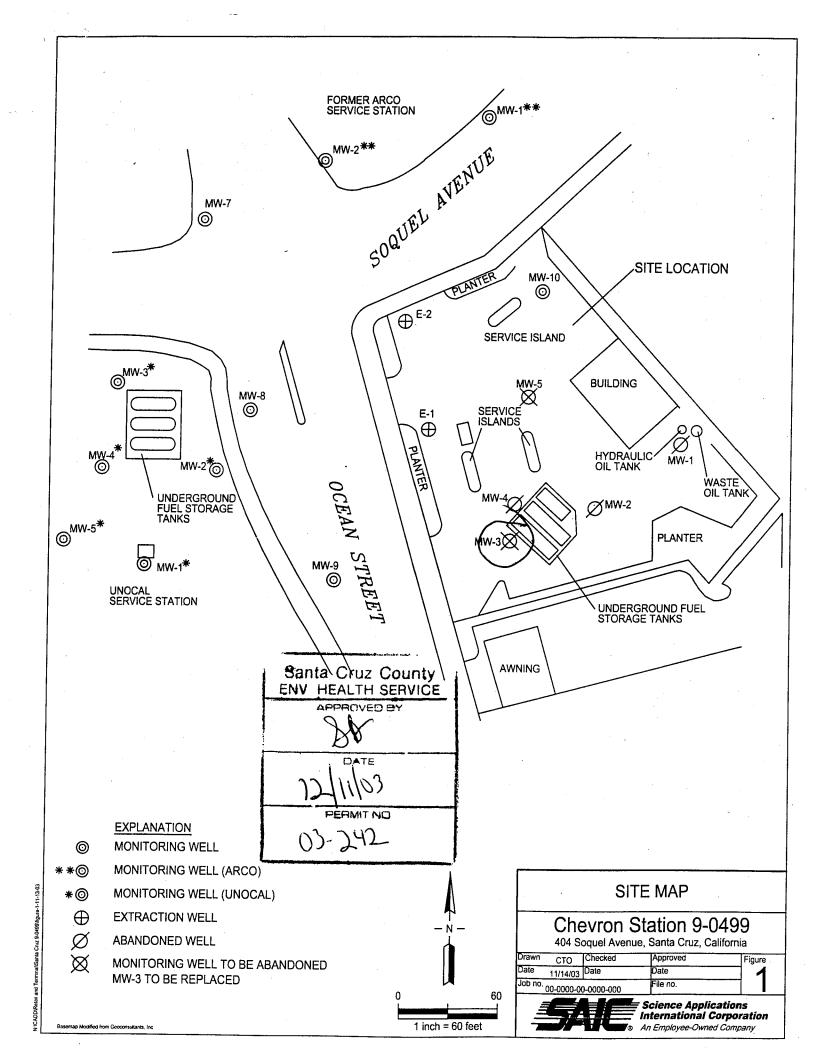


ATTACHMENT A WELL DESTRUCTION PERMITS

SANTA CRUZ COUNTY HEALTH SERVICES AGENCY - ENVIRONMENTAL HEALTH SERVICE - 701 OCEAN ST, RM 312, SANTA CHUZ, CA 95060 (831) 454-2022

APPLICATION FOR WELL PERMIT DEC 0 4 2003

☐ NEW	☐ REPLACE	MENT	SUPPLEMEN	ITAL X	DESTRUCTION	OTHE	B ENVIII COM	☐ MONITORING WELL	
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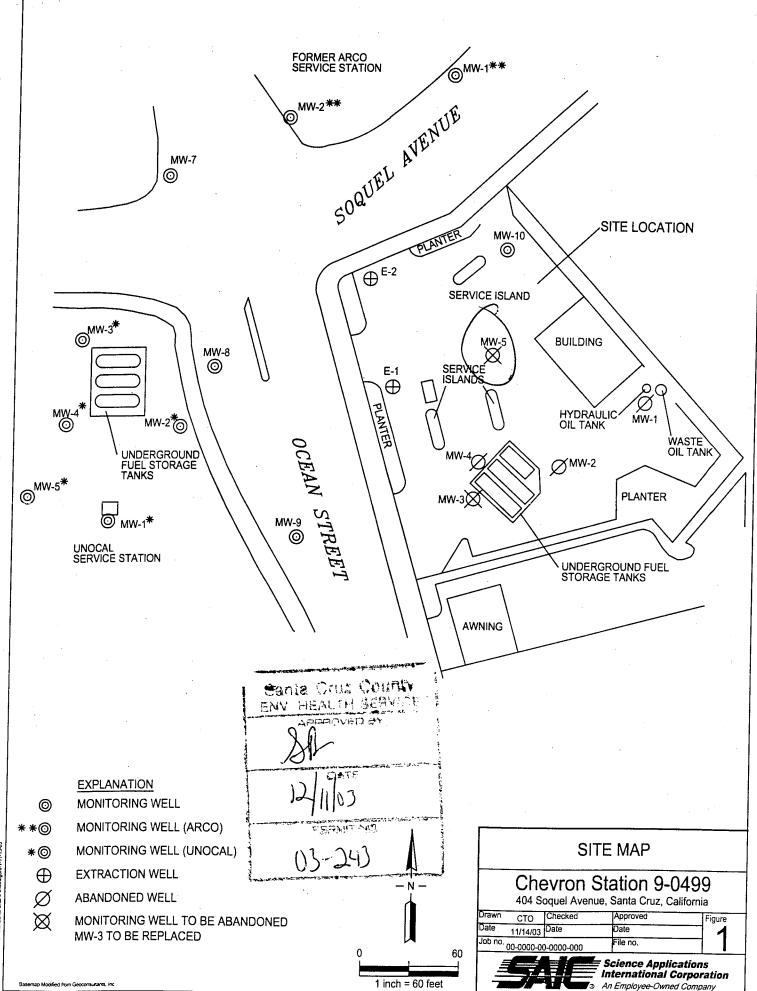


SANTA CRUZ COUNTY HEALTH SERVICE AGENCY - ENVIRONMENTAL HEALTH SERVICE - 701 OCEAN ST, RM 312, SANTA CRUZ, CA 95060 (831) 454-2022

PHD-133 (REV. 7/00)

APPLICATION FOR WELL PERMIT

					MONITORING WELL
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OWNER Mark Latterty	ADDF	RESS 6001 ISO	linger Canyon	n Rd. Bldg. L,	San Ramon, CA 9458 (925) 313-5800
DRILLING CONTRACTOR Green	gg Drilling, Inc	LIC	CENSE # <u>4/8/5/4</u>	65 PHONE	(925) 313-5800
DIRECTIONS TO SITE SE CO	rner Soquel Av	e \$ Ocean S	St., Santa	Cruz, CA	95062
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EXISTING WELLS ON PROPERTY	<u></u>	···/	LITTION SEAL (FI.) WiD	TH OF SEAL (IN.)
1. OTHER WELLS ON PROPERTY:	NUMBER: 5 TYP	PES: DOMESTIC	IRRIGATION	COMMERCIAL LISE	OTHER Extraction/
T. GOLDINGION OF CHILETON	IN FROMERIT. IN USE	A 10 BE DEST	H()Y)-()		UITER
IF NEW WELL REPLACES AN EX	ISTING WELL, INDICATE	INTENTIONS FOR I	ISE OF REPLACED	WELL:	~
TO SUPPLEMENT NEW WELI	L TO BE DESTROYE	DOTHER			• .
MICH DESCRIPTION	A				
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DiRetail and Terminal/Santa Core 6 04 0016

ATTACHMENT B BORING LOG



WELL/BORING LOG KEY TO ABBREVIATIONS

WELL / BORING COMPLETION



Annular seal; cement grout

Slotted well screen section

Solid well section



Bentonite seal

Annular sand pack

MOISTURE

D Dry

DP Damp

M Moist

W Wet (Sands and Gravels)

S Saturated (Silts and Clays)

<u>GROUNDWATER</u>

lacksquare

Stabilized Groundwater Level

 ∇

First Encountered Groundwater

DENSITY (blows/foot - Cal Mod Sampler)

-Sands and Gravels-

—Silts and Clays—

0-5 –Very loose

0-2 -Very soft

5-13

2-4

-Soft

0 10

Z-4

13-38

4-9 9-17 -Firm

38-63

-Dense

-Stiff

OVER 63 -Very dense

-loose

-Medium dense

-Very stiff

17–37 37–72

-Hard

OVER 72

· -Very hard

<u>FIELD TEST</u>

SOIL SAMPLE NUMBER

PID Photo-ionization detector FID Flame-ionization detector

B-1-5 MW-1-5 B—Sample #—Depth in feet (for borings) MW—Sample #— Depth in feet (for Wells)

RECOVERY / SAMPLE INTERVAL

SAMPLE INTERVAL — Attempted sample interval

RECOVERY - Sample retained within sample interval

NO RECOVERY - Sample not retained within sample interval

<u>GRAPHIC</u>

No Recovery——Sample Interval

EXPLANATION AND ABBREVIATIONS

USCS SYMBOL = Unified Soil Classification System

MSL = Mean Sea Level

2.5YR 6/2 = Munsel Color Chart Designation



UNIFIED SOIL CLASSIFICATION SYSTEM ASTM D2487

	MAJOR D	IVISIONS	SYM GRA	IBOL/	DESCRIPTION
	GRAVELS	Clean gravels	GW	000000	Well graded gravels, gravel—sand mixtures
<i>SOILS</i> #200 sieve)	(More than 50%	no fines	GP	5000000 5000000 50000000	Poorly graded gravels, gravel—sand mixtures
	of coarse fraction is	Gravels with over 12%	GM	000000	Silty gravels, poorly graded gravel—sand—silt mixtures
#4 sieve size	larger than the #4 sieve size)	fines	GC		Clayey gravels, poorly graded gravel—sand—clay mixtures
	Clean sands	SW		Well graded sands, gravelly sands	
	with little or no fines	SP		Poorly graded sands, gravelly sands	
	of coarse fraction is	Sands with	SM		Silty sands, poorly graded sand-silt mixtures
		f:	SC		Clayey sands, poorly graded sand—clay mixtures
S sieve)	:	ML		Inorganic silts and very fine sands, silty or clayey fine sands	
5 <i>01LS</i> 200 sie	SILTS AND CLAYS (liquid limit less than 50%)	CL		Inorganic clays of low to medium plasticity: gravelly, sandy or silty clays; lean clays	
<i>INED</i> shan #:		OL		Organic clays and organic silty clays of low plasticity	
<i>E GRA</i> naller t					Inorganic silts, micaceous or diatomacious fine sandy or silty soils, elastic silts
FINE GRAINED SOILS (>50% smaller than #200 s	SILTS AND CLAYS (liquid limit greater than 50%)	СН		Inorganic clays of high plasticity, fat clays	
٥			OH		Organic clays of medium to high plasticity, organic silts
	HIGHLY ORGANIC .	SOILS	Pt		Peat and other highly organic soils

GRAIN-SIZE SCALE

U.S. ST	ANDARD S	SERIES SIEVE			CLEA	R SQUARE SIE\	E OPENINGS
	200	40 1	0 .	4 .	3/4"	3"	12"
SILTS AND CLAY		SAND		GF	RAVEL	0000150	DOLU DEDG
0.2.10 71110 0217	FINE	MEDIUM	COURSE	FINE	COURSE	COBBLES	BOULDERS



Project No: 06-6102-00-3340-284

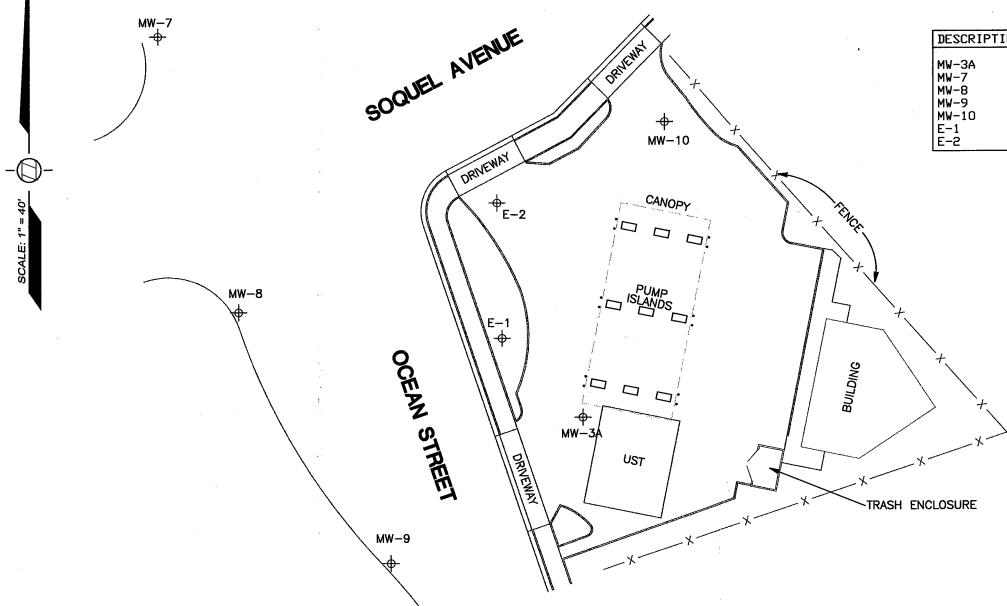
Page 1 of 1

		775	An Employee-Owned C	Company			-10	Ject No: 00-61	02-00-3340-284	1	Page 1 c)T T
PRO	JECT:	CVX 9 Santa 0	9-0499 Cruz, California						Log of Boring	J No	o. MW-	3A
BOR	NG LOC	ATION:	404 Soquel Aver	ue, Santa C	ruz, C	alifornia		***************************************	ELEVATION AND DATUM:	- A		
DRIL	LING CC	NTRACT	OR: Gregg Drillin	g			-		DATE STARTED:/TIME: 4/29/04 9:02	DATE 4/29/04	COMPLETED:/T	
DRIL	LER: Jas	son Neff							TOTAL DEPTH (ft.): 20'	MEAS	URING POINT:	
DRIL	ING ME	THOD:	Hollow Stem Aug	jer -10"					DEPTH TO WATER (ft.):	11' 10:05	7.7'	
DRILL	ING EQ	UIPMEN'	T: CME-80						GEOLOGIST: Kim Burckle		11.20	*
1	PLING M	ETHOD:	Split Spoon						REVIEWED BY: Joe Muzzio			
ell Tuction tail	≨Ê	s/t	SAMPLES <u>o</u>	F _S	HIC	SS		NAME (HE	DESCRIPTION CS): calar raid %	· 1 .1	•	
Well Construction Detail	MVO (mqq)	Blows/ Foot	Sample Id.	DEPTH (feet)	GRAPHIC	CLASS	-	IVAIVIE (US	CS): color, moist, % by wt., plas Surface Elevation: NA	. and de	ensity.	
							T	Boring hand augere	ed to 5' bgs.			
Cement								Native material obs	erved to be silt during borehole	dearanc	e.	
ပြီ				2—								
-Bentonite		ļ		3-								
			`	4_								
				5 -								ĺ
	1.3	10 14	MW-3A-6	i.e.		ML	T	SILT (ML); dark gra	ay (GY 5/5); damp; low to mediu , rootholes; mica flakes; very fine	m plastic	city; stiff;	
12	1.4	11	9:11	6					· · · · · · · · · · · · · · · · · · ·		,,	
				7		sw	▼	WELL GRADED SA	ND (SW) ; yellowish brown (10	/R 5/6);	wet; medium	
				8				dense; very fine to o	coarse grained sand; no odor; tra	ice clay.		
N	1.5	11 13		9								ļ
N		18	MW-3A-9 9:39	10								
- No				11								
Sand												
N				12								
N				13			İ					
	1.2 1.1	14 30	MW-3A-15	14		SP	┼-	POORLY GRADED	SAND (SP) ; yellowish brown (1	0YR 5/5	i); wet; dense;	
N		16	9:46	15				very coarse sand (1-	-2 mm); trace subrounded 1/2" g	ravel; no	o odor.	
N				16								
N				17								
N				H								
N				18								
M	i	36	MW-3A-19	19		С	 	SANDSTONE/SILTS	TONE (C) ; tannish brown; dam	p; very		
		50/6	9:55	20	77.7		<u> </u>	very fine to fine sand Boring terminated @	l, silt.			

NOTES: Well constructed with 4-inch diameter schedule 40 PVC, 0.02" factory slotted screen. Sand pack of #3 grade sand.

ATTACHMENT C MORROW SURVEYING WELL SURVEY DATA





DESCRIPTION	NORTHING	EASTING	ELEV (PVC)	ELEV (BOX)
MW-3A	1816703. 5	6118080. 0	32. 70	33. 34
MW-7	1816861. 8	6117902. 9	28. 88	29. 12
MW-8	1816747. 1	6117936. 5	31. 00	31. 60
MW-9	1816642. 7	6117999. 8	31. 44	32. 11
MW-10	1816826. 3	6118114. 3	34. 29	34. 68
E-1	1816736. 4	6118046. 3	32. 67	33. 67
E-2	1816792. 7	6118044. 2	32. 60	32. 97

DESCRIPTION	LATITUDE	LONGITUDE
MW-3A E-1 E-2 MW-7 MW-8 MW-9	36. 9742680 36. 9743569 36. 9745113 36. 9746947 36. 9743813 36. 9740976	-122. 0184878 -122. 0186050 -122. 0186152 -122. 0191027 -122. 0189811 -122. 0187589
MW-10	36, 9746068	-122, 0183772

BASIS OF COORDINATES AND ELEVATIONS:

COORDINATES ARE CALIFORNIA STATE PLANE ZONE 3 COORDINATES FROM GPS OBSERVATIONS USING UNIVERSITY OF CALIFORNIA BAY AREA DEFORMATION CORS STATION OBSERVATION FILES AND BASED ON THE CALIFORNIA SPATIAL REFERENCE CENTER DATUM, REFERENCE EPOCH 2000.35.

COORDINATE DATUM IS NAD 83(1986).

DATUM ELLIPSOID IS GRS80.

REFERENCE GEOID IS NGS99.

CORS STATIONS USED WERE PPT1 AND SODB.

VERTICAL DATUM IS NAVD 88 FROM GPS OBSERVATIONS.

0 20 40 80 120

SCALE IN FEET

Chevron Station NO. 9-0499
404 Soquel Avenue
Santa Cruz
Santa Cruz County
California



1450 Harbor Blvd. Ste. D West Sacramento California 95691 (916) 372-8124 jeff@morrowsurveying.com

Date: 7-8-04 Scale: 1" = 40' Sheet 1 of 1 Revised:

Field Book: MW-15 Dwg. No. 7167-012 JL

ATTACHMENT D GETTLER-RYAN INC. SEMI-ANNUAL MONITORING AND SAMPLING REPORT

July 29, 2004 G-R #386833

TO:

Mr. Mark Lafferty

ChevronTexaco Company P.O. Box 6012, Room K2208 San Ramon, California 94583 CC:

Mr. Joe Muzzio

SAIC

401 Alberto Way, Suite B Los Gatos, California 95032

FROM:

Deanna L. Harding

Project Coordinator Gettler-Ryan Inc.

6747 Sierra Court, Suite J Dublin, California 94568 RE:

Chevron Service Station

#9-0499

404 Soquel Avenue Santa Cruz, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
. 1	July 28, 2004	Groundwater Monitoring and Sampling Report Second Semi-Annual - Event of July 8, 2004

COMMENTS:

This report is being sent for your review. Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to, *August 24*, 2004, at which time the final report will be distributed to the following:

cc: Mr. Tom Sayles, RWQCB-CCR, 895 Aerovista Place, Suite 101, San Luis Obispo, CA 93401

Enclosures

trans/9-0499.ml

July 28, 2004 G-R Job #386833

Mr. Mark Lafferty ChevronTexaco Company P.O. Box 6012, Room K2208 San Ramon, CA 94583

RE: Second Semi-Annual Event of July 8, 2004

Groundwater Monitoring & Sampling Report

Chevron Service Station #9-0499

404 Soquel Avenue Santa Cruz, California

Dear Mr. Lafferty:

This report documents the well development and the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached). A joint groundwater monitoring and sampling event was not conducted with Arco #2132, located at 411 Soquel Avenue, Santa Cruz, California.

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are also attached.

Please call if you have any questions or comments regarding this report. Thank you.

Sincerely,

Deanna L. Harding Project Coordinator

10000 V ()

Hagop Kevork P.E. No. C55734

Figure 1: Potentiometric Map

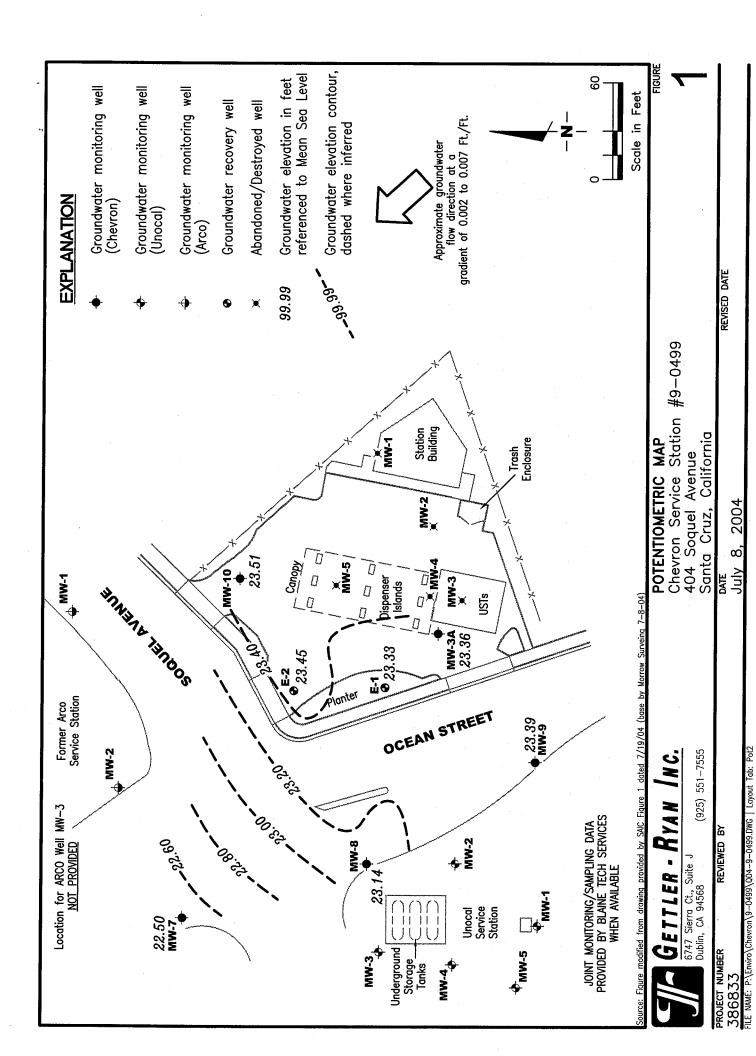
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results - Oxygenate Compounds

Table 3: Joint Groundwater Monitoring Data and Analytical Results - Arco

Attachments: Standard Operating Procedure - Groundwater Sampling

Field Data Sheets

Chain of Custody Document and Laboratory Analytical Reports



Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0499

404 Soquel Avenue Santa Cruz, California

WELL ID/	*20T	GWE	DTW	SPHT	TPH-D	TPH-G	В	1	4	X	MTBE	106
DATE	(ft.)	(msl)	(4.)	(ft)	(qdd)	(qdd)	(qdd)	(gdd)	(qdd)	(qdd)	(qdd)	(qdd)
MW 1												
I- M M							•	4	•	•		
09/28/88	33.14	21.07	12.07	ŀ	<50	1	<5.0	<5.0	<5.0	<5.0	:	01>
10/20/88	33.14	20.68	12.46	ŀ	1	1	ŀ	ŀ	;	ı	1	ŀ
01/03/89	33.14	21.72	11.42	:	<50	ŀ	<0.5	<0.5	<0.5	<1.0	ŀ	<5.0
04/07/89	33.14	23.05	10.09	1	<50	<50	<0.5	<0.5	<0.5	<2.0	ł	<5.0
04/19/89	33.14	22.60	10.54	1		1	1	ŀ	ŀ	ŀ	;	:
07/24/89	33.14	21.15	11.99	ŀ	<50	<50	<0.5	<0.5	<0.5	<1.0	ŀ	<5.0
08/14/89	33.14	20.86	12.28	ł	ł		:	:	ŧ	ŀ	!	ŀ
10/16/89	33.14	20.47	12.67	:	<500	<500	<0.3	<0.3	<0.3	9.0>	!	<1.0
01/30/90	33.14	20.50	12.64	1	<100	<50	<0.3	<0.3	<0.3	9.0>	ł	<1.0
04/24/90	33.14	19.82	13.32	:	<100	<50	<0.3	<0.3	<0.3	9.0>	ŀ	<1.0
04/18/0	33.14	20.37	12.77	ŀ	ł	<50	<0.3	<0.3	<0.3	<0.6	ł	ł
10/16/90	33.14	19.88	13.26	ŀ	;	<50	<0.3	<0.3	<0.3	9.0>	:	ŀ
01/08/91	33.14	19.64	13.50	ŀ	ı	<50	<0.5	2.0	<0.5	6.0	ł	1
04/22/91	33.14	21.14	12.00	ł	ł	<50	<0.5	<0.5	<0.5	<0.5	í	;
ABANDONED	ED											
MW-2						•						
09/28/88	32.09	21.71	10.38	ŀ	ł	650	130	41	3.0	14	1	ŀ
10/20/88	32.09	21.33	10.76	ł	ł	ŀ	ŀ	ŀ		ŀ	:	1
01/03/89	32.09	22.34	9.75	ŀ	1	1,500	620	10	<0.5	30	!	!
04/07/89	32.09	23.70	8.39		ŀ	1,100	440	3.0	6.0	35	ŀ	ł
04/19/89	32.09	23.23	8.86	:	ł	ł	ŀ	ŀ	I	1	ŀ	:
07/24/89	32.09	21.79	10.30	;	1	320	99	<0.5	<0.5	<1.0	į	;
08/14/89	32.09	21.53	10.56	ŧ	ł	1	• •	ŀ	I	ł	į	
10/16/89	32.09	21.12	10.97	1	ŀ	520	120	2.0	7.0	5.0	ŀ	ł
01/30/90	32.09	21.14	10.95	ŀ	ı	<50	11	<0.3	<0.3	9.0>	i	ŀ
04/24/90	32.09	21.47	10.62	· I	ł	<50	<0.3	<0.3	<0.3	9.0>	:	ŀ
07/31/90	32.09	21.03	11.06	ı	ľ	66	∞	<0.3	2.0	1.0	;	;
10/11/90	32.09	20.53	11.56	ł	ŀ	110	15	<0.3	1.0	1.0	ŀ	ŀ
01/08/91	32.09	20.26	11.83	1	ł	82	24	2.0	9.0	2.0	ł	ŀ
04/23/91	32.09	21.79	10.30	ŀ	;	190	21	<0.5	<0.5	<0.5	1	1
ABANDONED	ED											

Groundwater Monitoring Data and Analytical Results Chevron Service Station #9-0499 Table 1

404 Soquel Avenue Santa Cruz, California

ID/	Toc*	GWE	DTW	SPHT	TPH-D	TPH-G	8			¥	MTRE	TOG
DATE	(A.)	(mst)	(ff.)	(ft.)	(qdd)	(pdd)	(bpb)	(php)	(apa)			(qdd
MW-5												
09/28/88	30.89	21.31	9.58	1	ŀ	1,500	360	1.0	<0.5	7.0	1	1
10/20/88	30.89	20.95	9.94	ŀ	1.	ŀ	1	ŀ	ŀ	;	1	ŀ
01/03/89	30.89	21.88	9.01	ł	. 1	470	99	4.2	1.0	7.0	ł	:
04/07/89	30.89	22.37	8.52	ł	ŀ	8,000	4,400	190	87	460	ł	ŀ
04/19/89	30.89	23.05	7.84	ı	ŀ	1	;		ŀ	ł	į	
07/24/89	30.89	21.40	9.49	1	1	1,300	230	99	4.0	110	ł	1
08/14/89	30.89	21.14	9.75	1	ŀ	ŀ	1	1		ŀ	ŀ	1
10/16/89	30.89	20.74	10.15	ŧ	1	<500	58	1.0	8.0	1.0	1	ł
01/30/90	30.89	20.76	10.13	ŀ	ŀ	270	35	<0.3	1.0	9.0>	ł	ŀ
04/25/90	30.89	21.07	9.82	:	1	<50	5.0	<0.3	<0.3	<0.6	ŀ	1
07/31/90	30.89	20.64	10.25	ŀ	1	89	0.6	<0.3	<0.3	9.0>	ŀ	1
10/17/90	30.89	20.16	10.73	;	ŀ	73	12	<0.3	<0.3	9.0>	ł	ı
01/08/91	30.89	19.89	11.00	ŀ	1	110	18	<0.5	<0.5	<0.5	ł	ı
04/23/91	30.89	23.38	7.51	;	ì	93	13	<0.5	<0.5	<0.5		1
16/90/80	30.89	20.49	10.40	1.	1	68	2.7	<0.5	1.3	20	1	1
09/04/91	30.89	19.65	11.24	. }	<50	110	<0.5	<0.5	1.1	11	;	ŀ
10/02/91	30.97	19.46	11.51	:	!	1		;	1	ţ		1
12/30/91	30.97	19.43	11.54	;	<50	51	<0.5	<0.5	<0.5	<0.5	ŀ	;
03/19/92	30.97	21.60	9.37	. 1	<50	69	20.0	<0.5	3.0	1.9	•	:
06/11/92	30.97	20.67	10.30	;		<50	9.0	<0.5	<0.5	<0.5	1	;
09/15/92	30.97	20.05	10.92	ł	ŀ	29	<0.5	<0.5	<0.5	<0.5	:	ŀ
12/22/92	30.97	19.85	11.12	1	;	<\$0	<0.5	<0.5	<0.5	<0.5	. !	1
03/22/93	30.97	22.58	8.39		ı	<50	<0.5	<0.5	<0.5	<0.5	1	ŀ
06/21/93	30.97	21.36	9.61		1.	<50	<0.5	<0.5	<0.5	<0.5	ŀ	i
09/03/934	30.97	20.52	10.45	:	ŀ		ŀ			1	1	1
09/24/93	30.97	ŀ	ł	;	;	<50	<0.5	<0.5	<0.5	<0.5	1	ł
12/15/93	30.97	20.16	10.81	1	ţ	<50	<0.5	<0.5	<0.5	<0.5	ŀ	ŀ
03/16/94	30.97	21.23	9.74	1	1	<50	<0.5	5.5	<0.5	4.3	1	;
06/13/94	30.97	21.27	9.70	:	1	<200	<2.0	<2.0	<2.0	<2.0	ı	
09/29/94	30.97	20.21	10.76	i	1	<50	<0.5	<0.5	<0.5	<0.5	1	!
12/07/94	30.97	20.27	10.70	ŀ	;	<50	<0.5	<0.5	<0.5	<0.5	1	;
03/20/95	30.97	22.37	8.60	:	;	<50	<0.5	<0.5	<0.5	<0.5		:
06/19/95	30.97	21.01	96.6	ı	i	<50	<0.5	<0.5	<0.5	<0.5	ŀ	;

As of 07/08/04

9-0499.xls/#386833

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0499
404 Soquel Avenue

404 Soquel Avenue	Santa Cruz, California

WELL ID/ DATE	TOC* (ft.)	GWE (mst)	DTW (ft.)	SPHT (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (<i>ppb</i>)	E (ppb)	(qdd)	MTBE (ppb)	TOG (gpb)
MW 2 (comt)												
09/12/95	30.97	20.77	10.20	ı	:	<50	<0.5	<0.5	<0.5	<0.5	ŀ	;
12/13/95	30.97	20.37	10.60	1	•	<50	<0.5	<0.5	<0.5	<0.5	i	1
06/17/96	30.97	21.74	9.23	1	SAMPLED ANNUALLY	NNUALLY	ŀ	1	1	;		ŀ
12/19/96	30.97	21.77	9.20	!	l	<500	<5.0	<5.0	<5.0	<5.0	ŀ	1
26/191/90	30.97	20.72	10.25	1	. 1	1	1	ŀ	1	i	1	!
12/05/97	30.97	20.69	10.28	1	ł	<50	<0.5	<0.5	<0.5	<0.5	140	1
05/28/98	30.97	23.72	7.25	ŀ	SAMPLED ANNUALLY	NNUALLY	ŀ	1	•	ŀ	•	ŀ
08/11/98	30.97	21.48	9.49	;	;	<50	<0.5	<0.5	<0.5	<0.5	140	;
02/03/99	30.97	22.46	8.51	- 1	ŀ	ŀ	ŀ	ŀ	ı	ŀ	ļ	;
08/02/99	30.97	22.72	8.25		ŀ	<50	<0.5	<0.5	<0.5	<0.5	27.7	ŀ
02/16/00	30.97	24.14	6.83	1	ŀ	1	ŀ	ŀ	1	1	1	!
08/16/00	30.97	21.62	9.35	0.00	ŀ	<50.0	<0.500	<0.500	<0.500	<0.500	35.2	:
02/23/01	30.97	22.77	8.20	0.00	ŀ	ł	ŀ	:	1	1	1	;
08/02/01	30.97	21.48	9.49	0.00	ł	<50	<0.50	69.0	<0.50	<0.50	11/157	į
02/13/02	30.97	22.94	8.03	0.00	SAMPLED ANNUALLY	NNUALLY		ł	1	ł	1	1,
08/02/02	30.97	21.43	9.54	0.00	ŀ	<50	<0.50	<0.50	<0.50	.	760/750 ⁷	ŀ
02/03/03	30.97	22.57	8.40	0.00	SAMPLED A	PLED ANNUALLY	!		I	ŀ	1	ł
08/01/03	30.97	21.57	9.40	0.00	ŀ	<50	<0.5	<0.5	<0.5	<1.5	93/817	1
DESTROYE	DESTROYED - DECEMBER 2003	BER 2003									÷	
MW-3A												
$07/08/04^{8}$	32.70	23.36	9.34	0.00	ŀ	0 \$>	<0.5	<0.5	<0.5	<1.5	47/457	ţ
MW-4												
09/28/88	31.74	21.22	10.52	0.40	:	260,000	16,000	15,000	8,000	22,000	ŀ	ŀ
10/20/88	31.74	20.52	11.22	1	ł	1	1	ŀ	1	1	;	:
01/03/89	31.74	22.01	9.73	0.80	1	ŀ	ŀ	1	ŀ	:	1	ı
04/07/89	31.74	23.15	8.59	90.0	ŀ	1,400,000	18,000	47,000	68,000	56,000	1	1
04/19/89	31.74	22.71	9.03	ł	1	ŀ	ŀ	ı		i	;	ŀ
07/24/89	31.74	21.12	10.62	0.15	1	280,000	15,000	19,000	3,800	26,000	ŀ	ŀ
08/14/89	31.74	20.92	10.82	;	1	!	1	ł	ŀ	ł	ł	;

Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0499

venue	ornia
Ā	Calif
Soque	Cruz,
404	Santa

TOG (app)		ŀ	ł	i	ŀ		į	ł				;	1	ŀ	1	1	1	1	•	ŀ	1	1	ŀ	i	:	:	1	ŀ	ŀ	ŀ	ŀ	ı
MTBE (ppb)		ŀ	ŀ	1	ŀ	ŀ	ł	ŀ			ł	i	1	ŀ	ŀ	ŀ	:	;	1	1	i	ł	ŧ	:	ł	i	;	ł	ŀ	1		1
(qdd)		69,000	18,000	14,000	ŀ	ı	1	ı			14	;	20	23	1	<1.0	ŀ	9.0>	9.0>	9.0>	9.0>	9.0>	9.0>	<0.5	;	<0.5	<0.5	ì	<0.5	<0.5	1.6	<0.5
E (ppb)		11,000	3,000	2,300	ŀ	1	1	ŀ			4.0	1	80	35	ł	<0.5	i	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	1	<0.5	<0.5	ŀ	<0.5	<0.5	0.7	<0.5
(gdd)		30,000	18,000	8,200	1	ŀ	1	ŀ			12	i	40	18	ł	<0.5	ŀ	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	i	<0.5	<0.5	ŀ	<0.5	<0.5	<0.5	<0.5
B (ppb)		10,000	7,400	5,700	ì	ŀ	1	ŀ			69	1	490	470	;	73	ì	1.0	3.0	0.4	2.0	8.0	<0.5	<0.5	. 1	0.5	<0.5	ł	<0.5	<0.5	1.6	<0.5
(bpb)		450,000	84,000	78,000	1	ŀ	i	ŀ			610	ł	2,000	1,900	ŧ	580	ł	<500	08	130	210	150	<50	66	ł	59	120	ŀ	160	76	71	110
(gbb)		1	ŀ	ŀ	:	ŀ	ŀ	. 1			ŀ	ı	1	;	1	ŀ	1	ŀ	1	1	ŀ	ł	ł	ł		ŧ	<50	ŀ	<\$0	\$00		ŀ
SPHT (ft.)		0.17	0.01	0.01	0.05	0.03	0.02	Sheen			;	ŀ		1,	:		1	. !	ł	:	i	ł	1	•	1	ŀ	ł	ŀ	ł	ŀ	:	ŀ
DTW (ft.)		11.27	11.15	9.76	11.23	11.72	11.93	10.77			9.90	10.23	90.6	7.95	8.32	9.75	10.06	10.44	10.39	10.08	10.54	11.06	11.30	08.6	ł	10.72	12.02	12.31	12.21	10.09	11.04	11.77
GWE (mst)		20.47	20.59	21.98	20.51	20.02	19.81	20.97			21.01	21.68	22.85	23.96	23.59	22.16	21.85	21.44	21.52	21.83	21.37	20.85	20.61	22.11	ŀ	21.19	19.89	19.64	19.74	21.86	20.91	20.18
TOC*		31.74	31.74	31.74	31.74	31.74	31.74	31.74	3D		31.91	31.91	31.91	31.91	31.91	31.91	31.91	31.91	31.91	31.91	31.91	31.91	31.91	31.91	31.93	31.91	31.91	31.95	31.95	31.95	31.95	31.95
WELL ID/ DATE	MW-4 (cont)	10/16/89	01/30/90	04/25/90	07/31/90	10/16/93	16/80/10	04/23/91	ABANDONED	MW-5	09/28/88	10/20/88	01/03/89	04/07/89	04/19/89	07/24/89	08/14/89	10/16/89	01/30/90	04/24/90	07/31/90	10/11/90	01/09/91	04/23/91	07/01/911	08/06/91	09/04/91	10/02/91	12/30/91	03/19/92	06/11/92	09/15/92

As of 07/08/04

9-0499.xls/#386833

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0499
404 Soquel Avenue
Santa Cruz, California

WELL ID/	roc*	GWE	DTW	SPHT		TPH-G	8	₩.	4	*	MTBE	TOG
DA1B	(h)	(mst)	(11.)	(n)	(add)	(add)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)
MW-5 (cont)												
12/22/92	31.95	20.78	11.17	:	ŀ	26	<0.5	<0.5	<0.5	<0.5	ţ	ļ
03/22/93	31.95	22.69	9.26	ł	ł	06	<0.5	<0.5	<0.5	<0.5	1	1
06/21/93	31.95	21.41	10.54	ŀ	ł	<50	<0.5	<0.5	0.7	3.0	ŀ	1
09/03/934	31.95	20.54	11.41	i	ł	. 1	ŀ	1	ŀ	1	1	;
09/24/93	31.95	ŀ	ŀ	ŀ	i	120	2.0	3.0	0.7	4.0	ŀ	
12/15/93	31.95	20.23	11.72	:	ŀ	<50	<0.5	<0.5	<0.5	<0.5	ı	ŀ
03/16/94	31.95	21.45	10.50	i	ŀ	< 20	<0.5	8.7	<0.5	<0.5	ı	ł
06/13/94	31.95	21.76	10.19	I	1	<50	<0.5	2.2	<0.5	<0.5	1	ı
09/29/94	31.95	20.01	11.94	. 1	;	<50	<0.5	<0.5	<0.5	<0.5	;	ł
12/07/94	31.95	20.53	11.42	;	ì	<50	<0.5	<0.5	<0.5	<0.5	;	ł
03/20/95	31.95	23.15	8.80	ŀ	ł	<50	0.90	1.5	<0.5	0.71	ł	ŀ
06/19/95	31.95	22.35	09.6	i	ì	<50	<0.5	<0.5	<0.5	<0.5	ł	1
09/12/95	31.95	21.20	10.75	ŀ	1	<50	<0.5	<0.5	<0.5	<0.5	ł	ŀ
12/13/95	31.95	20.37	11.58	ŀ	ŀ	<50	<0.5	<0.5	<0.5	<0.5	ŀ	i
06/17/96	31.95	21.94	10.01	ŀ	SAMPLED ANNUALLY	NUALLY	:	ł	ł		ł	I
12/19/96	31.95	21.96	66.6	ŀ	1	<50	<0.5	1.6	<0.5	<0.5	1	ŀ
26/91/90	31.95	20.79	11.16	ŀ	ı	ŀ	ı		ł	ļ	;	;
12/05/97	31.95	21.07	10.88	;	ł	<50	<0.5	<0.5	<0.5	<0.5	<2.5	:
05/28/98	31.95	23.10	8.85	1	SAMPLED AND	ANNUALLY	1	1	:	ŀ	1	1
08/11/98	31.95	21.49	10.46	ŀ	ŀ	120	<1.0	13	<1.0	<1.0	5.3	ł
02/03/99	31.95	22.37	9.58	ł	ŀ	ł	ŀ	1	!	ł	ŀ	ł
08/02/99	31.95	22.24	9.71	ł	l	615	<0.5	3.68	<0.5	<0.5	<5.0	ŀ
02/16/00	31.95	24.82	7.13	ŀ	1	;	ı	;	1	ŀ	ŀ	ł
08/16/00	31.95	22.29	99.6	0.00	ŀ	58.36	<0.500	13.7	<0.500	<0.500	<5.00	ŀ
02/23/01	31.95	23.97	7.98	0.00	I	;	ŀ	ı	ı	ł	ŀ	ŀ
08/02/01	31.95	22.15	08.6	0.00	1	66	<0.50	49	<0.50	0.83	<2.5	;
02/13/02	31.95	23.66	8.29	00.0	SAMPLED ANNUALLY	NUALLY	i	ł	1	ı	ŀ	ŀ
08/02/02	31.95	22.11	9.84	0.00	i	<250	<1.0	15	<1.0	<3.0	<2.5	ŀ
02/03/03	31.95	23.38	8.57	0.00	SAMPLED ANNUALLY	NUALLY	i	;	;	1	ŀ	ŀ
08/01/03	31.95	22.40	9.55	0.00	1	<50	<0.5	<0.5	<0.5		<2.5	ł
DESTROYED - DECEMBER 2003	DECEMBE	R 2003										

Groundwater Monitoring Data and Analytical Results Chevron Service Station #9-0499 404 Soquel Avenue Santa Cruz, California Table 1

WELL ID/ DATE	TOC*	GWE (msl)	DTW (ft)	SPHT (ft)	TPH-D (dph)	(gdd)	B (php)	(gda)	E (ppb)	(qdd)	MTBE (ppb)	TOG (ppb)
9-MW										:		
09/28/88	30.72	21.32	9.40	;	i	<50	4.0	<0.5	<0.5	<1.0	ı	i
10/20/88	30.72	20.94	82.6	ł	1	1	1	1	1	ŀ	;	:
01/03/89	30.72	22.12	8.60	ŀ	ł	440	8.7	1.2	9.0	<1.0	1,	
04/07/89	30.72	21.40	9.32		;	099	41	2.8	1.9	5.0	:	ŀ
07/24/89	30.72	23.20	7.51	ŀ	ŀ	80	3.6	<0.5	<0.5	1.0	:	;
08/14/89	30.72	21.11	9.61	:	1	ŀ	1	1	ţ	;	;	:
10/16/89	30.72	20.74	86.6	;	. 1	750	18	<0.3	1.0	0.1	1	ì
01/30/90	30.72	20.77	9.95	ŀ	1	1,200	99	5.0	2.0	7.0	1	:
04/25/90	30.72	21.10	9.62	:	ŀ	1,400	480	0.9	<0.3	31.0	1	;
07/31/90	30.72	20.65	10.07	:	ŀ	1,500	51	<0.3	1.0	2.0	ı	;
10/11/90	30.72	20.14	10.58	1	ŀ	1,400	31	2.0	2.0	4.0	ŀ	;
01/09/91	30.72	19.87	10.85	ŀ	1	<50	<0.5	<0.5	<0.5	<0.5	;	1,
04/23/91	30.72	21.39	9.33	ţ	ŀ	630	10	4.0	2.0	0.9	1	:
ABANDON.	ABANDONED - REPLACED BY WELL E-2	D BY WELL	L E-2									
MW-7												
07/24/89	26.67	19.57	7.10	ł	ı	<\$0	<0.5	<0.5	<0.5	<1.0	;	:
08/14/89	26.67	19.33	7.34	ŀ	1	<500	<0.3	<0.3	<0.3	9.0>	ł	ŀ
10/16/89	26.67	19.14	7.53	i	."	<50	<0.3	<0.3	<0.3	9.0>	.	i
01/30/90	26.67	19.08	7.59		ı	<50	<0.3	<0.3	<0.3	9.0>	:	ł
04/24/90	26.67	19.21	7.46	ŀ	ı	<50	<0.3	<0.3	<0.3	9.0>	ł	ŀ
04/18//0	26.67	18.90	7.77	ţ	ı	<\$0	<0.3	<0.3	<0.3	9.0>	1	
10/16/90	26.67	18.69	7.98	ł	1 -	<50	<0.3	<0.3	<0.3	9.0>	}	1
01/08/91	26.67	18.67	8.00	;	ŀ	<50	<0.3	<0.3	<0.3	9.0>	!	;
04/22/91	26.67	19.47	7.20	ł		<50	<0.5	<0.5	<0.5	<0.5	ł	·
08/06/91	26.67	18.79	7.88	;	ŀ	<50	<0.5	<0.5	<0.5	<0.5	1	1
09/04/91	26.67	18.43	8.24	:	<50	<50	<0.5	<0.5	<0.5	<0.5	!	:
10/02/91	26.57	18.24	8.33	ŀ	ŀ	ŀ	·ł	;	!	ŀ	1	ŀ
12/30/91	26.57	17.76	8.81	ł	<50	51	<0.5	<0.5	<0.5	<0.5	ı	ŀ
03/19/92	26.57	19.27	7.30		<50	<50	<0.5	<0.5	<0.5	<0.5	!	:
06/11/92	26.57	18.74	7.83	ł	ł	<50	<0.5	<0.5	<0.5	<0.5	ł	:
09/15/92	26.57	18.57	8.00	!	ł	<50	<0.5	<0.5	<0.5	<0.5	:	

As of 07/08/04

9-0499.xls/#386833

Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0499
404 Soquel Avenue
Santa Cruz, California

WELL ID/ DATE	TOC*	GWE (msl)	DTW (ft.)	SPHT (A.)	TPH-D (ppb)	TPH-G (ppb)	B (bpb)	(ppb)	E (ppb)	(qdd)	MTBE (ppb)	TOG (ppb)
MW-7 (cont)									r L			
12/22/92	26.57	18.63	7.94	1	;	<50	<0.5	<0.5	<0.5	<0.5	ŀ	ŀ
03/22/93	26.57	18.86	7.71	ł	1	<50	<0.5	<0.5	<0.5	<0.5	:	;
06/21/93	26.57	19.44	7.13	ļ	ŀ	<50	<0.5	<0.5	<0.5	<0.5	;	1
09/03/93	26.57	18.79	7.78	i	1	<50	<0.5	<0.5	<0.5	<0.5	ì	ŀ
12/15/93	26.57	18.77	7.80	;	ŀ	<50	<0.5	<0.5	<0.5	<0.5	!	;
03/16/94	26.57	19.39	7.18	i	!	<50	<0.5	<0.5	<0.5	<0.5	ł	ŀ
06/13/94	26.57	19.43	7.14	ŀ	ŀ	<50	<0.5	<0.5	<0.5	<0.5	:	ŀ
09/29/94	26.57	19.35	7.22	;	1	310	11	<1.0	1.6	1.3	;	ŀ
12/07/94	26.57	19.39	7.18	;	ŀ	<50	<0.5	<0.5	<0.5	0.55	;	į
03/20/95	26.57	21.03 5.54	5.54	;	l	<50	<0.5	<0.5	<0.5	<0.5	;	ì
06/19/95	26.57	19.83	6.74	;	ŀ	<50	2.1	<0.5	<0.5	<0.5	;	;
09/12/95	26.57	19.37	7.20	ł	1	<50	<0.5	<0.5	<0.5	<0.5	1	1
12/13/95	26.57	19.20	7.37	ľ	!	<50	<0.5	<0.5	<0.5	<0.5	1	;
06/17/96	26.57	20.24	6.33	1	ŀ	<50	<0.5	<0.5	<0.5	<0.5		1
12/19/96	26.57	20.25	6.32	ł	ŀ	<50	<0.5	<0.5	<0.5	<0.5	1	;
26/91/90	26.57	18.87	7.70	ł		<50	2.2	0.97	0.51	1.5	31	!
12/05/97	26.57	19.05	7.52	ŀ	!	<50	<0.5	<0.5	<0.5	<0.5	26	ŀ
05/28/98	26.57	20.40	6.17	1	!	120	<0.3	<0.3	<0.3	<0.6	17	1
08/11/98	26.57	18.96	7.61	}	i i	<50	<0.5	<0.5	<0.5	<0.5	25	i
02/03/99	26.57	18.54	8.03	1	ł	<50	<0.5	<0.5	<0.5	<0.5	<2.5	1
08/02/99	26.57	18.56	8.01	1	!	<50	<0.5	<0.5	<0.5	<0.5	29	1
02/16/00	26.57	22.06	4.51	}	!	<50	<0.5	<0.5	<0.5	<0.5	<3.19	1
08/16/00	26.57 I	NACCESSIBL	JE - DUE TO	TRAFFIC C	ONTROL	ŀ	1	1	1	1	1	1
02/23/01	26.57	21.46	5.11	0.00	ŀ	<50	<0.50	<0.50	<0.50	<0.50	12	1
08/02/01	26.57	19.39	7.18	0.00	!	<50	<0.50	1.6	<0.50	0.87	17/187	
02/13/02	26.57	19.20	7.37	0.00	1	<50	<0.50	<0.50	<0.50	<1.5	4.2/47	!
08/02/02	26.57	19.81	92.9	0.00	1	<50	<0.50	<0.50	<0.50	<1.5	6.4/77	
02/03/03	26.57	21.09	5.48	0.00	1	<50	<0.50	0.50	3.8	<1.5	<2.5/<27	ŀ
08/01/03	26.57	19.90	29.9	0.00	ŀ	<50	<0.5	<0.5	<0.5	<1.5	2.8/27	;
02/05/04	26.57	21.49	5.08	0.00	:	<50	<0.5	<0.5	<0.5	<1.5	<2.5/27	1
07/08/04	28.88	22.50	6.38	0.00	ŀ	<50	<0.5	<0.5	<0.5	!>	2.6/<2 ⁷	į

Groundwater Monitoring Data and Analytical Results Chevron Service Station #9-0499 404 Soquel Avenue Santa Cruz, California Table 1

WELL ID/ DATE	TOC*	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	(qdd)	E (bpb)	(qdd)	MTBE (ppb)	TOG (ppb)
MW-8												
07/24/89	29.12	21.23	7.89	ŀ	ŀ	098	<2.0	8.0	3.0	10	!	ŀ
08/14/89	29.12	20.97	8.15	i	ŀ	1	1	1	1	1	1	1
10/16/89	29.12	20.65	8.47	ŀ	ı	<500	0.4	<0.3	<0.3	1.0	1.	
01/30/90	29.12	20.64	8.48	ı	ŀ	130	1.0	<0.3	<0.3	1.0	1	:
04/24/90	29.12	20.92	8.20	;	1	<50	<0.3	<0.3	<0.3	9.0>	1	;
07/31/90	29.12	20.54	8.58	i.	ŀ	82	<0.4	<0.3	0.4	9.0	1	1
10/16/90	29.12	20.09	9.03	;	ŀ	1,300	0.6	2.0	4.0	0.9	1	1
01/08/91	29.12	19.82	9.30	;	;	420	0.9	1.0	6.0	4.0	ł	
04/22/91	29.12	21.19	7.93	Sheen	ŀ	i	ŀ	!	;	ł	ł	;
08/06/91	29.12	20.36	8.76	ŀ	1	280	6.0	6.0	1.0	2.1	1	ł
09/04/91	29.12	19.80	9.32	ŀ	<50	150	<0.5	6.0	<0.5	2.2	ŀ	ŀ
10/07/91	29.01	19.42	9.59	1	ł	1	ŀ	i	1	1	ŀ	;
12/30/91	29.01	19.29	9.72	ŀ	390	330	<0.5	<0.5	9.0	2.6	1	ŀ
03/19/92	29.01	21.02	7.99	ŧ	99	99	<0.5	<0.5	<0.5	1.2	ł	1
06/11/92	29.01	20.50	8.51	1	ŀ	69	8.0	2.0	1.0	6.9	ŀ	ŀ
09/15/92	29.01	20.03	8.98	· ¦	ŀ	<50	<0.5	<0.5	<0.5	8.0	1	ł
12/22/92	29.01	19.74	9.27	1	1	68	<0.5	<0.5	<0.5	1.0		1
03/22/93	29.01	21.70	7.31	ł	ŀ	460	<0.5	6.0	1.0	3.0	;	İ
06/21/93	29.01	20.97	8.04	. ;	1	410	<0.5	2.0	6.0	10	1	Ì
09/03/934	29.01	20.34	8.67	ŀ	ŀ	ļ	1	ŀ	1	ŀ	ł.	ł
09/24/93	29.01	ŀ		i	1	830	<0.5	1.0	1.0	17	:	1
12/15/93	29.01	20.00	9.01	ŀ	ŀ	230	<0.5	0.55	<0.5	<0.5	ì	1
03/16/94	29.01	20.21	8.80	ŀ	ì	74	<0.5	<0.5	<0.5	<0.5	. 1	1
06/13/94	29.01	20.99	8.02	ł	1.	82	<0.5	<0.5	<0.5	<0.5	ł	1
09/29/94	29.01	20.01	9.00	ŀ	ŀ	<50	<0.5	<0.5	<0.5	<0.5	1	ŀ
12/07/94	29.01	INACCESSIBLE	(LE	ţ		1	- 1	ŀ	1	1		1
03/20/95	29.01	INACCESSIBLE	TE	i	ŀ	1	·1	.1	ŀ	ł	ł	:
06/19/95	29.01	INACCESSIBLE	(LE	ł	1	ı	ł	ŀ	1	ł	ŀ	1
09/12/95	29.01	INACCESSIBLE	(LE	ŀ	ŀ		1	ŀ	ŀ	. 1	ŀ	ŀ
12/13/95	29.01	INACCESSIBLE	(LE	ŀ	ŀ	-1		ŀ	ł	ļ	ł	ł
06/17/96	29.01	21.21	7.80	ł	1	29	<0.5	<0.5	<0.5	<0.5	1	ŀ
12/19/96	29.01	21.33	7.68	;	1	1,100	<1.0	<1.0	4.8	6.6	ŀ	ł
06/16/97	29.01	20.45	8.56	;	ŀ	250	<0.5	0.77	1.3	2.0	5.9	ı

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Groundwater Monitoring Data and Analytical Results Chevron Service Station #9-0499 404 Soquel Avenue Santa Cruz, California

WELL ID/ DATE	TOC* (ft.)	GWE (ms/)	DTW (#.)	SPHT	TPH-D (bbb)	TPH-G	B (ana)	T (aaa)	E (ppb)	X (mnh)	MTBE	TOG
									, , , , , , , , , , , , , , , , , , ,			
MW-8 (cont)												
12/05/97	29.01	20.47	8.54	:	:	260	<0.5	<0.5	<0.5	<0.5	<2.5	1
05/28/98	29.01	21.90	7.11	ŀ	ŀ	290	<0.3	<0.3	<0.3	>0.6	<10	i
08/11/98	29.01	20.87	8.14	ŀ	ŀ	120	<0.5	<0.5	2.2	<0.5	5.7	;
02/03/99	29.01	19.94	9.07	1	ŀ	69	<0.5	<0.5	<0.5	<0.5	3.4	1
08/02/99	29.01	19.82	9.19	:	ŀ	835	<2.5	<2.5	<2.5	<2.5	<25	1
02/16/00	29.01	23.04	5.97	;	1	655	<1.0	<1.0	1.5	<1.0	8.6	ŀ
08/16/00	29.01	21.16	7.85	0.00	1	1406	0.622	0.550	<0.500	<0.500	<5.00	;
02/23/01	29.01	22.16	6.85	0.00	ŀ	1106	<0.50	<0.50	<0.50	<0.50	<2.5	;
08/02/01	29.01	21.02	7.99	0.00	ŀ	099	<0.50	1.4	2.1	0.89	<2.5	ţ
02/13/02	29.01	22.20	6.81	0.00	ŀ	140	<0.50	<0.50	<0.50	<1.5	2.6	ŀ
08/02/02	29.01	21.06	7.95	0.00		160	<0.50	<0.50	<0.50	<1.5	<2.5	I
02/03/03	29.01	22.06	6.95	0.00	ŀ	280	<0.50	<0.50	<0.50	<1.5	<2.5	ŀ
08/01/03	29.01	21.13	7.88	0.00	ł	160	<0.5	<0.5	<0.5	<1.5	<2.5	1
02/05/04	29.01	21.67	7.34	0.00	1	540	<0.5	<0.5	<0.5	<1.5	<2.5	ţ
07/08/04	31.00	23.14	7.86	0.00	ı	110	<0.5	<0.5	<0.5	<1.5	<2.5	I
WW-9												
07/24/89	29.50	21.75	7.75	ŀ	ŧ	<50	6.9	<0.5	1.7	<1.0	1	ŀ
08/14/89	29.50	21.16	8.34	ł	1	<50	1.0	<0.3	<0.3	9.0>	i	1
10/16/89	29.50	20.80	8.70	ł	1	<500	<0.3	<0.3	<0.3	9.0>	1	;
01/30/90	29.50	20.79	8.71	ŀ	1	<50	<0.3	<0.3	<0.3	9.0>	ł	ŀ
04/24/90	29.50	21.10	8.40	ŀ	1	<50	<0.3	<0.3	<0.3	9.0>	ł	ŀ
07/31/90	29.50	20.68	8.82	ł	1	<50	<0.3	<0.3	<0.3	9.0>	i	1
10/16/90	29.50	20.22	9.28	ŧ	ł	<50	<0.3	<0.3	<0.3	9.0>	1	;
01/08/91	29.50	20.00	9.50	1	ł	<50	<0.5	<0.3	<0.3	9.0>	ł	;
04/22/91	29.50	21.22	8.28	!	}	<50	0.7	<0.5	<0.5	<0.5	ł	:
16/90/80	29.50	20.50	9.00	ŀ	1	<50	<0.5	<0.5	<0.5	<0.5	1	1
09/04/91	29.50	19.79	9.71	}	<50	<50	<0.5	<0.5	<0.5	<0.5	ŀ	ŀ
10/0/01	29.38	19.33	10.05	ŀ	1	ŀ	1	i	ŀ	;	1	ł
12/30/91	29.38	19.30	10.08	ł	<50	<50	<0.5	<0.5	<0.5	<0.5	i	1
03/19/92	29.38	21.29	8.09	ŀ	<50	<50	<0.5	<0.5	<0.5	<0.5	;	;
06/11/92	29.38	20.54	8.84	ŀ	1	<50	<0.5	<0.5	<0.5	<0.5	;	ł

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Groundwater Monitoring Data and Analytical Results Chevron Service Station #9-0499 404 Soquel Avenue Santa Cruz, California Table 1

						`						
WELL ID/	TOC*	GWE	DTW	SPHT	TPH-D	TPH-G	B.	T	E	X	MTBE	TOG
DATE	(11)	(ms)	UE	(Ar)	(ndd)	fadd)	(add)	(add)	(m/dd)	(add)	fadd	(add)
MW-9 (cont)												
09/15/92	29.38	19.99	9.39	ŀ	ì	<50	<0.5	<0.5	<0.5	<0.5	ł	1
12/22/92	29.38	19.75	9.63	1	1	<50	<0.5	<0.5	<0.5	<0.5	ŀ	;
03/22/93	29.38	22.10	7.28	ı	:	<50	<0.5	<0.5	<0.5	<0.5	1	ł
06/21/93	29.38	21.19	8.19	:	<50	<50	<0.5	<0.5	<0.5	<0.5	i	ŀ
09/03/934	29.38	20.36	9.03	1	ŀ	1	ŀ	1	1	ŀ	1	1
09/24/93	29.38	ł	1	1	ł	<50	<0.5	<0.5	<0.5	<0.5	ŀ	
12/15/93	29.38	20.01	9.37	ŀ	ŀ	<50	<0.5	<0.5	<0.5	<0.5	ŀ	ŀ
03/16/94	29.38	21.01	8.37	1	;	<50	<0.5	<0.5	<0.5	<0.5	l	;
06/13/94	29.38	21.25	8.13	ŀ	i	<50	<0.5	<0.5	<0.5	<0.5	ŀ	ł
09/29/94	29.38	19.97	9.41	ł	1	<50	<0.5	<0.5	<0.5	<0.5	ł	1
12/07/94	29.38	INACCESSIBLE	BLE	1	!	ŀ	;	:	ŀ	ŀ	ŀ	;
03/20/95	29.38	INACCESSIBLE	BLE	ŀ	1	ŀ	ì	;	ŀ	ŀ	» 1	;
06/19/95	29.38	INACCESSIBLE	BLE	ŀ	ł	ı	ŀ	ŀ	ŀ	ŀ	1	1
09/12/95	29.38	INACCESSIBLE	BLE	1	!	1	;	ł	ł	ŀ	1	1
12/13/95	29.38	INACCESSIBLE	BLE	ŀ	!		;	:	;	l	;	1
06/12/96	ŀ	ı	8.81	ł	i	<50	<0.5	<0.5	<0.5	<0.5	ŀ	!
12/19/96	:	1	7.92	ŀ	;	<50	<0.5	<0.5	<0.5	<0.5	ŀ	1
06/16/97	ł	;	8.99	ŀ	SAMPLED AN	INUALLY	i	ŀ	ŀ	ŀ	ŀ	;
12/05/97	ŀ	1	8.96	ŀ	ŀ	<50	<0.5	<0.5	<0.5	<0.5	22	;
05/28/98	ŀ	ŀ	7.29	ŀ	SAMPLED ANNUALLY	INUALLY	1	:	1	1	1,	;
08/11/98	ŀ		7.95	1	1	<50	<0.5	<0.5	<0.5	<0.5	210	ŀ
02/03/99	1	1	8.92	ŀ	;	1	1	ŀ	ŀ	1.	•	ŀ
08/07/99	ŀ	ŀ	8.69	ŀ	1	<50	0.593	<0.5	<0.5	<0.5	12.9	ı
02/16/00	ł	i	6.31	ŀ	1.	ŀ	1	1		į	ŀ	;
08/16/00	29.38	21.39	7.99	0.00	:	<50.0	<0.500	<0.500	<0.500	<0.500	65.0	ŀ
02/23/01	29.38	22.37	7.01	0.00	;	ŀ	ŀ	ŀ	1	1	ŀ	ţ
08/02/01	29.38	21.26	8.12	0.00	!	<50	<0.50	0.85	<0.50	0.54	18/237	;
02/13/02	29.38	22.61	6.77	0.00	SAMPLED ANNUALLY	INUALLY	ŀ	1	ł	ŀ	ŀ	:
08/02/02	29.38	21.24	8.14	0.00	ŀ	<\$0	<0.50	<0.50	<0.50	<1.5	7.5/97	1
02/03/03	29.38	22.28	7.10	0.00	SAMPLED ANNUALLY	INUALLY	ŀ	1	ł	i	ł	;
08/01/03	29.38	21.32	8.06	0.00	ŀ	<50	<0.5	<0.5	<0.5	<1.5	15/137	:
02/05/04	29.38	22.41	6.97	0.00	SAMPLED ANNUALLY	INUALLY	ŀ	ł	ı	ŀ	1	1
07/08/04	31.44	23.39	8.05	0.00	I	<50	<0.5	<0.5	<0.5	<1.5	6.3/47	ł

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Table 1 Groundwater Monitoring Data and Analytical Results Chevron Service Station #9-0499 404 Soquel Avenue

404 Soquel Avenue Santa Cruz, California

WELL ID/	TOC*	GWE (ms)	DTW	SPHT	TPH-D	TPH-G	B.	1	<u>a</u>	×	MTBE	TOG
	(10)	Contract Con	07	0.1	(ndd)	fadd)	ladd	(add)	(add)	(add)	(add)	(add)
MW-10												
07/24/89	32.32	21.39	10.93	ł	1	<50	<0.5	<0.5	<0.5	1.0	ŀ	ŀ
08/14/89	32.32	21.11	11.21	ŀ	1	ł	;	1	1		;	ł
10/16/89	32.32	20.73	11.59	:	į	<500	21	2.0	0.5	9.0>	ł	ł
01/30/90	32.32	20.76	11.56	!	I,	55	1.0	<0.3	<0.3	9.0>	1	ŀ
04/24/90	32.32	21.07	11.25	ŀ	ŀ	<50	<0.3	<0.3	<0.3	<0.6	ł	ł
07/31/90	32.32	20.64	11.68	ı	ŀ	<50	<0.3	<0.3	9.0>	<0.6	ł	ŧ
10/16/90	32.32	20.14	12.18	i	ŀ	62	0.5	<0.3	<0.3	9.0>	ŀ	;
01/08/91	32.32	19.87	12.45	;	ŀ	110	<0.5	<0.3	<0.5	<0.5	!	ŀ
04/22/91	32.32	21.38	10.94	ŀ	ŀ	58	<0.5	<0.5	<0.5	<0.5	ŀ	ļ
16/90/80	32.32	20.47	11.85	ı	;	62	<0.5	<0.5	<0.5	1.2	i	;
09/04/91	32.32	21.08	11.24	ŀ	<50	110	<0.5	<0.5	<0.5	<0.5	;	1
16/11/01	32.18	19.54	12.64	ŀ	í	ŀ	;	1	. 1	1	ŀ	:
12/30/91	32.18	19.45	12.73	;	<50	56	0.7	<0.5	<0.5	9.0	1	
03/19/92	32.18	21.64	10.54	ı	<50	<50	<0.5	<0.5	<0.5	<0.5	ł	:
06/11/92	32.18	20.72	11.46	;	:	<50	<0.5	<0.5	<0.5	<0.5	1	;
09/15/92	32.18	20.04	12.14	ŀ	ŀ	<50	<0.5	<0.5	<0.5	<0.5	1	}
12/22/92	32.18	19.89	12.29	ł	ŀ	<50	<0.5	<0.5	<0.5	<0.5	ł	ŀ
03/22/93	32.18	22.66	9.52	ŀ	ŀ	<50	<0.5	<0.5	<0.5	<0.5	ŀ	
06/21/93	32.18	21.40	10.78	ŀ	ŀ	<50	<0.5	<0.5	<0.5	<0.5	ł	1
09/03/934	32.18	20.53	11.65	;	1	1	1	;	1	1	ŀ	;
09/24/93	32.18	ŀ	ŀ	;	;	<50	<0.5	<0.5	<0.5	<0.5	ł	;
12/15/93	32.18	20.22	11.96	ł	I	<50	<0.5	<0.5	<0.5	<0.5	ł	1
03/16/94	32.18	21.29	10.89	ŀ	ŀ	<50	<0.5	<0.5	<0.5	<0.5	ł	ŀ
06/13/94	32.18	21.29	10.89	ŀ	ŀ	<50	<0.5	<0.5	<0.5	<0.5	ł	ŀ
09/29/94	32.18	20.24	11.94	ŀ	ı	<50	<0.5	<0.5	<0.5	<0.5	ŀ	1
12/07/94	32.18	20.26	11.92	:	1	<50	<0.5	<0.5	<0.5	<0.5	1	}
03/20/95	32.18	23.58	8.60	ŀ	ł	<50	<0.5	<0.5	<0.5	<0.5	1	1
06/19/95	32.18	22.34	9.84	;	1	<50	<0.5	<0.5	<0.5	<0.5	;	;
09/12/95	32.18	21.08	11.10	ł	i	<50	<0.5	<0.5	<0.5	<0.5	1	1
12/13/95	32.18	20.33	11.85	;	ł	<50	<0.5	<0.5	<0.5	<0.5	ŀ	;
06/17/96	32.18	21.77	10.41	1	SAMPLED AN	ED ANNUALLY	!	l'	ŀ	ł	ł	†
12/19/96	32.18	21.80	10.38	ł	ŀ	<50	<0.5	<0.5	<0.5	<0.5	;	ł
06/16/97	32.18	20.74	11.44	ŀ	1	:	ŀ	. 1	ı	;	ł	;

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Groundwater Monitoring Data and Analytical Results Chevron Service Station #9-0499 404 Soquel Avenue Santa Cruz, California Table 1

(A) 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	******	TARA C	V.bbt.	Obstate	of sendo	C Little	4	1	4			14 14 14
DATE		(msl)	Off.)	(f)	(gldd)	(dpb)	b) (ppb)	(qdd)	E (ppb)	(qdd)	MITBE (ppb)	901 (<i>qda</i>)
MW-10 (cont)	1¢)											
12/05/97	32.18	20.79	11.39	ŀ	ŀ	<50	<0.5	<0.5	<0.5	<0.5	<2.5	;
05/28/98	32.18	23.18	00.6	ŀ	SAMPLED ANNUALLY	VNUALLY	:	ŀ	1	ŀ	ł	ŀ
08/11/98	32.18	21.47	10.71	ł	- <50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	
02/03/99	32.18	21.97	10.21	ŀ	ł	i	ŀ	i	ı	i	ŀ	i
08/07/99	32.18	22.08	10.10	ł	1	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1
02/16/00	32.18	24.69	7.49	ŀ	;	;	1	ł	ı	:	ł	1
08/16/00	32.18	21.37	10.81	0.00	.1	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	l
02/23/01	32.18	22.58	09.6	0.00	ł	ŀ	1	;	1	ı	ŀ	1
08/02/01	32.18	21.25	10.93	0.00	ł	<50	<0.50	0.79	<0.50	<0.50	<2.5	ŀ
02/13/02	32.18	22.69	9.49	0.00	SAMPLED AT	NUALLY	ŀ	ł	ŀ	ı	ł	;
08/02/02	32.18	21.19	10.99	0.00		<50	<0.50	<0.50	<0.50	<1.5	<2.5	ŀ
02/03/03	32.18	22.34	9.84	0.00	SAMPLED ANNUALLY	NUALLY	ŀ	;	ł	ı	. 1	ŀ
08/01/03	32.18	21.34	10.84	0.00	ŀ	<50	<0.5	<0.5	<0.5	<1.5	<2.5	ŀ
02/05/04	32.18	22.55	9.63	0.00	SAMPLED ANNUALLY	UNDALLY	ŀ	;	;	ı	ł	ŀ
07/08/04	34.29	23.51	10.78	0.00	1	<50	<0.5	<0.5	<0.5	<1.5	<2.5	ı
E-1												
09/04/91	1	1.	ł	1	2,000	7,800	120	. 23	180	280	1	;
10/02/91	30.28	19.53	10.75	ŀ		į	i	i		1	1	;
12/30/91 ²	28.95	19.44	9.51		<50	3,000	42	12	88	170	:	;
03/19/92	28.95	21.45	7.50	;	<50	6,900	170	8.6	310	480		1
06/11/92	28.95	20.73	8.22	;	1	7,200	110	19	240	450	ŀ	;
09/15/92	28.95	20.08	10.20	ł	1.	8,400	160	50	240	400	ı	ŀ
12/22/92	28.95	19.97	10.31	;	;	7,600	140	12	310	370	1	ŀ
03/22/93	28.95	22.97	7.31	:		11,000	230	41	009	1,100	;	ł
06/21/933	30.28	21.33	8.95	ł	1	2,400	65	8.0	84	76	;	;
$09/03/93^2$	28.95	20.41	8.54	ŀ	I	4,000	110	7.0	310	170	;	i
12/15/93	30.28	18.79	10.16	ŀ	1	1,300	27	<0.5	20	17	;	
03/16/94	30.28	21.23	9.05	ŀ	I	1,800	. 29	<0.5	100	93	1	;
06/13/94	30.28	21.23	9.05		ı	2,600	73	<5.0	83	140	ŀ	;
09/29/94	30.28	19.30	10.98	ı		3,700	130	<10	95	110	ł	;
12/07/94	30.28	20.38	06.6	1	1	2,600	63	<5.0	120	78	ŀ	ŀ
	,											

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Groundwater Monitoring Data and Analytical Results Chevron Service Station #9-0499 404 Soquel Avenue Santa Cruz, California Table 1

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	SPHT (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (bpb)	(qdd)	E (ppb)	(qdd)	MTBE (ppb)	TOG (ppb)
E-1 (cont)												
03/20/95	30.28	23.32	96.9	1		420	8.1	1.6	17	15		ŀ
06/19/95	30.28	22.24	8.04	!	ŀ	096	3.8	<1.2	13	8.6	1	1
09/12/95	30.28	20.68	09.6	ŧ	ŀ	086	13	<0.5	11	18	1	!
12/13/95	30.28	20.30	86.6	ł	ŀ	<50	<0.5	<0.5	<0.5	0.51	1	1
06/17/96	30.28	21.71	8.57	1	ŀ	2,900	27	<0.5	61	38	ŀ	1
12/19/96	30.28	21.95	8.33	ŀ	ŀ	450	15	<0.5	15	5.7	ŀ	ť
06/16/97	30.28	20.76	9.52		ŀ	2,400	10	<2.5	6.3	12	<12	1
12/05/97	30.28	20.78	9.50	ŀ	ł	490	8.3	8.2	34	5.4	<2.5	1
05/28/98	30.28	23.38	06.9		;	2,100	1.4	<0.3	<0.3	3.4	<10	ţ
08/11/88	30.28	21.47	8.81	ŀ	;	2,100	<5.0	<5.0	12	9.4	<25	ł
02/03/99	30.28	22.25	8.03	ŀ	1	210	11	<0.5	<0.5	2.7	12	!
08/07/99	30.28	22.59	69.7	1	ŀ	888	20.8	39.4	8.14	35	<10	ŀ
02/16/00	30.28	23.97	6.31	ì	;	385	38.1	1.19	15.8	11.8	2.77	;
08/16/00	30.28	21.75	8.53	0.00	ł	316 ⁵	3.63	<0.500	0.811	<0.500	<5.00	i
02/23/01	30.28	23.28	7.00	0.00	1	150 ⁶	10	0.85	<0.50	3.6	4.2	;
08/02/01	30.28	21.85	8.43	0.00	1	410	1.1	1.4	0.50	0.63	8.0/8.67	;
02/13/02	30.28	23.45	6.83	0.00	;	610	5.0	<0.50	14	<1.5	14/137	1
08/02/02	30.28	22.00	8.28	0.00	;	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<27	
02/03/03	30.28	23.11	7.17	0.00	;	130	0.94	<0.50	1.2	<1.5	7.2/7	1
08/01/03	30.28	22.12	8.16	0.00	:	<50	<0.5	<0.5	<0.5	<1.5	<2.5/<27	ŀ
02/05/04	30.28	23.27	7.01	0.00	;	<50	<0.5	<0.5	<0.5	<1.5	<2.5/<27	1
07/08/04	32.67	23.33	9.34	0.00	ı	170	<0.5	<0.5	<0.5	<1.5	12/127	ł
E-2												,
09/04/91	;	1	ł	1	<50	130	<0.5	<0.5	<0.5	0.7	ŀ	;
10/07/91	30.50	19.59	10.01		. 1	;	:	;	1	:	į	ł
$12/30/91^2$	29.40	19.52	88.6	. 1	<50	330	<0.5	0.5	6.0	1.4	;	ţ
03/19/92	29.40	21.70	7.70	:	<50	340	<0.5	<0.5	1.4	1.5	1	1
06/11/92	29.40	20.82	8.58	ŀ	ŀ	200	<0.5	6.0	9.0	2.8	I	ľ
09/15/92	29.40	20.15	10.35	ŀ	1	160	<0.5	<0.5	9.0	1.6	1	ı
12/22/92	29.40	20.05	10.45	:	1	200	2.0	1.7	2.2	5.4	;	;
03/22/93	29.40	22.59	7.91	ŀ	ı	480	0.5	<0.5	3.0	2.0	1	ŀ

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Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0499

404 Soquel Avenue Santa Cruz, California

3.18 0.6 0.6 1.0 <th>TOC*</th> <th>GWE (msl)</th> <th>DTW (ft.)</th> <th>SPHT (ft.)</th> <th>CH4D (gdd)</th> <th>TPH-G (dpb)</th> <th>B (bbb)</th> <th>(<i>gdd</i>)</th> <th>E (ppb)</th> <th>(qdd)</th> <th>MTBE (ppb)</th> <th>10G (4dd)</th>	TOC*	GWE (msl)	DTW (ft.)	SPHT (ft.)	CH4D (gdd)	TPH-G (dpb)	B (bbb)	(<i>gdd</i>)	E (ppb)	(qdd)	MTBE (ppb)	10G (4dd)
6.10 - 180 0.6 1.0 1.0 11.65 -												
11.65		24.40	6.10	1	ŀ	180	9.0	9.0	1.0	1.0	ŀ	:
< 40 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <		20.53	11.65	i	ï	;	1	ł	ł	ł	1	3
10.28 - \$\leq 0.5\$ \$\leq 0.5\$		i	ì	ł		<50	<0.5	<0.5	<0.5	<0.5	1	ł
921 - 95 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5<		21.90	10.28	ŀ	1	<50	<0.5	<0.5	<0.5	<0.5	1	!
922 - 89 - 0.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.05<		21.29	9.21	ı	i	95	<0.5	<0.5	<0.5	<0.5	ţ	•
10.32 <50		21.28	9.22	ŀ	ŀ	68	<0.5	<0.5	<0.5	0.63	ŀ	;
9.32 - </td <td></td> <td>20.18</td> <td>10.32</td> <td>:</td> <td>:</td> <td><50</td> <td><0.5</td> <td><0.5</td> <td><0.5</td> <td><0.5</td> <td>;</td> <td>;</td>		20.18	10.32	:	:	<50	<0.5	<0.5	<0.5	<0.5	;	;
7.16 - 120 2.7 60.5 60.5 60.5 8.22 - - 150 6.7 6.0 60.5		21.18	9.32	ì	:	<50	<0.5	<0.5	<0.5	<0.5	ŀ	ł
8.22 - 150 6.7 <0.5 <0.5 <0.5 9.70 - - 57 <0.5		23.34	7.16	;	ŀ	120	2.7	<0.5	<0.5	<0.5	ł	;
9.70 57 <0.5 <0.5 <0.5 10.02 <50		22.28	8.22	ŀ	;	150	6.7	<0.5	<0.5	<0.5	ŀ	;
10.02 - <		20.80	9.70	ŀ	ŀ	57	<0.5	<0.5	<0.5	<0.5	;	
8.81 - 58 <0.5 <0.5 <0.5 8.66 - - 75 <0.5		20.48	10.02	1	;	<50	<0.5	<0.5	<0.5	<0.5	. 1	!
8.66 - 75 <0.5 <0.5 <0.5 9.67 - - 50 <0.5		21.69	8.81	ŀ	ł	58	<0.5	<0.5	<0.5	<0.5	1	;
9.67 < <50 <0.5 <0.5 <0.5 9.41 - 66 <0.5		21.84	99.8	ŀ		75	<0.5	<0.5	<0.5	<0.5	;	į
9.41 - 66 <0.5 <0.5 <0.5 7.15 - - 170 0.58 0.9 0.54 <0.6		20.83	29.6	1.	ŀ	<50	<0.5	<0.5	<0.5	<0.5	<2.5	;
7.15 - 170 0.58 0.9 0.54 6.06 8.98 - - 170 61 60.5 60.5 60.5 8.18 - - 61 60.5 60.5 60.5 60.5 8.19 - - 60.5 60.5 60.5 60.5 60.5 8.19 - - 73.4 60.5 60.5 60.5 60.5 8.19 - - 73.4 60.5 60.5 60.5 60.5 8.12 0.00 - 64.36 60.50 60.50 60.50 60.50 60.50 7.24 0.00 - 640 60.50		21.09	9.41	1	1	99	<0.5	<0.5	<0.5	<0.5	<2.5	ı
8.98 - 61 60.5 60.5 60.5 8.21 - - 60 60.5 60.5 60.5 8.19 - - - 60.5 60.5 60.5 60.5 8.19 - - - 41.5 7.17 35.6 6.03 - - 73.4 40.5 60.5 60.5 60.5 8.12 0.00 - 64.36 60.50 60.50 60.50 60.50 7.31 0.00 - 64.36 60.50 60.50 60.50 60.50 9.64 0.00 - 650 60.50 60.50 60.50 60.50 7.26 0.00 - 650 60.50 60.50 60.50 60.50 8.73 0.00 - 650 60.50 60.50 60.50 61.5 7.44 0.00 - 650 60.5 60.5 60.5 61.5 9.15		23.35	7.15		1	170	0.58	6.0	0.54	9.0>	<10	ŀ
8.21 - < 50 < 0.5 < 0.5 < 0.5 8.19 - - 330 186 41.5 7.17 35.6 6.03 - - - 330 186 41.5 7.17 35.6 6.03 - - - 73.4 < 0.5		21.52	86.8	:	ŀ	61	<0.5	<0.5	<0.5	<0.5	2.9	. 1
8.19 - 330 18.6 41.5 7.17 35.6 6.03 - - 73.4 <0.5		22.29	8.21	1	}	<50	<0.5	<0.5	<0.5	<0.5	3.4	;
6.03 - 73.4 <0.5 <0.5 <0.5 8.12 0.00 - 64.3° <0.500		22.31	8.19	ł	ŀ	330	18.6	41.5	7.17	35.6	30.9	. 1
8.12 0.00 - 64.3° <0.500 <0.500 <0.500 7.31 0.00 - <50		24.47	6.03		1	73.4	<0.5	<0.5	<0.5	<0.5	<2.5	
7.31 0.00 - <50 <0.50 <0.50 <0.50 9.64 0.00 - 55 <0.50		22.38	8.12	0.00	ı	64.36	<0.500	<0.500	<0.500	<0.500	43.5	1
9.64 0.00 - 55 <0.50 0.63 <0.50 0.52 7.26 0.00 - <50		23.19	7.31	0.00	ł	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1
7.26 0.00 - <50 <0.50 <0.50 <1.5 8.70 0.00 - <50		20.86	9.64	0.00	1	55	<0.50	0.63	<0.50	0.52	15/177	1
8.70 0.00 <50 <0.50 <0.50 <0.50 <1.5 7.58 0.00 <50		23.24	7.26	0.00	1	<50	<0.50	<0.50	<0.50	<1.5	<2.5/27	:
7.58 0.00 <50		21.80	8.70	0.00	1	<50	<0.50	<0.50	<0.50	<1.5	7.7/87	1
8.53 0.00 <50 <0.5 <0.5 <0.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1		22.92	7.58	0.00	1	<50	<0.50	0.51	<0.50	<1.5	<2.5/27	:
7.44 0.00 <50 <0.5 <0.5 <0.5 <1.5 <		21.97	8.53	0.00	ŀ	<50	<0.5	<0.5	<0.5	<1.5	2.6/37	!
9.15 0.00 <50 <0.5 <0.5 <0.5 <1.5		23.06	7.44	0.00	1	<50	<0.5	<0.5	<0.5	<1.5	<2.5/<27	ŀ
		23.45	9.15	0.00	1	<50	<0.5	<0.5	<0.5	<1.5	11/97	ı

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Table 1 Groundwater Monitoring Data and Analytical Results Chevron Service Station #9-0499 404 Soquel Avenue Santa Cruz, California

WE'L IN	***************************************	CW/F	hTW.	CPLTT.	TPHD	TPUC	ď		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	*	MTRE	TOC
DATE (ft.) (mst)	(A.)	(msl)	(A.)	(#)	(php)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(ddd)
TRIP BLANK	>											
06/21/93	ŀ	ì		:		<\$0	0.5	0.5	0.5	0.5	ł	ŀ
09/03/93	1	1	ŧ		t	<\$0	<0.5	<0.5	<0.5	<0.5		ŀ
09/24/93	ŀ	!	ŀ	ŀ	ŀ	<50	<0.5	<0.5	<0.5	<0.5	ŀ	ŀ
12/15/93	ï	:	ŀ	:		<50	<0.5	<0.5	<0.5	<0.5	;	ŀ
03/16/94	;	1	1	;	1	<\$0	<0.5	<0.5	<0.5	<0.5	ŀ	!
06/13/94	ŀ		ŀ	ŀ	i	<50	<0.5	<0.5	<0.5	<0.5	ŀ	:
09/29/94	;		1	:	1	<\$0	<0.5	<0.5	<0.5	<0.5	;	ŀ
12/07/94	;	;	ł		ŀ	<50	<0.5	<0.5	<0.5	<0.5	!	i
03/20/95	;	<u>.</u>		. 1	1	<50	<0.5	<0.5	<0.5	<0.5	ŀ	ı
56/61/90	;	;	1	ı	!	<\$0	<0.5	<0.5	<0.5	<0.5	;	ŀ
09/12/95	ŀ	1		ŀ	ŀ	<50	<0.5	<0.5	<0.5	<0.5	;	ŀ
12/13/95	;	ł	1	ŀ	1	<50	<0.5	<0.5	<0.5	<0.5	!	1
06/17/96		ŀ	ł	ŀ	ŀ	<\$0	<0.5	<0.5	<0.5	<0.5	;	ŀ
12/19/96	ł	1	1	ţ	ŀ	<50	<0.5	<0.5	<0.5	<0.5	;	ŀ
06/16/97	;		ŀ	ŀ	ł	<50	<0.5	<0.5	<0.5	<0.5	<2.5	;
12/05/97	į	ŀ	;	ŀ		<\$0	<0.5	<0.5	<0.5	<0.5	<2.5	i
05/28/98	;	ł	f	1	1	<50	<0.3	<0.3	<0.3	9.0>	<10	ŀ
08/11/98	ŀ	:	ŀ	ŀ	!	<\$0	<0.5	<0.5	<0.5	<0.5	<2.5	1
02/03/99	ŀ	ŀ	:	1	1	<50	<0.5	<0.5	<0.5	<0.5	<2.5	i
02/16/00	ł	ł	!	1	ı	<50	<0.5	<0.5	<0.5	<0.5	<2.5	ŀ
08/16/00	ı	1	ł	1	1	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	ŀ
02/23/01	1	ł	ŀ	ŀ	ŀ	<50	<0.50	<0.50	<0.50	<0.50	<2.5	ŀ
08/02/01	ł	ł	ł	1	ŀ	<50	<0.50	<0.50	<0.50	<0.50	<2.5	;
QA												
02/13/02	;	1	1	1	1	<\$0	<0.50	<0.50	<0.50		<2.5	!
08/02/02	1.	:	ı	1	. 1	<20	<0.50	<0.50	<0.50	<1.5	<2.5	ŀ
02/03/03	:	i	ŀ	1	i	<50	<0.50	<0.50	<0.50	<1.5	<2.5	ŀ
08/01/03	ŀ	i	;	• 1	ŀ	<50	<0.5	<0.5	<0.5	<1.5	<2.5	ŀ
02/05/04	ŀ	ł	ŀ	1	!	<20	<0.5	<0.5	<0.5	<1.5	<2.5	1
07/08/04	ŀ	ŀ	ı	ı	ł	<\$0	<0.5	<0.5	<0.5	<1.5	<2.5	1

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Table 1

Groundwater Monitoring Data and Analytical Results Chevron Service Station #9-0499 404 Soquel Avenue

Santa Cruz, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to August 16, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

QA = Quality Assurance/Trip Blank -- = Not Measured/Not Analyzed

(ppb) = Parts per billion

MTBE = Methyl tertiary butyl ether TOG = Total Oil and Grease E = Ethylbenzene X = XylenesT = TolueneTPH-D = Total Petroleum Hydrocarbons as Diesel SPHT = Separate Phase Hydrocarbon Thickness GWE = Groundwater Elevation DTW = Depth to Water (msl) = Mean sea level

TOC elevations for the following wells (MW-3A, MW-7, MW-8, MW-9, MW-10, E-1, & E-2) were surveyed on July 8, 2004, by Morrow Surveying. The benchmark for the survey was referenced to GEOID NGS99, coordinate datum is NAD 83(1986).

Casing bent on well.

Well Elevations and DTW measured from top of casing.

Well Elevations and DTW measured from top of box.

Laboratory missed hold times, resampled 09/24/93.

Laboratory report indicates weathered gasoline C6-C12.

Laboratory report indicates unidentified hydrocarbons C6-C12.

MTBE by EPA Method 8260. Well development performed. Table 2
Groundwater Analytical Results - Oxygenate Compounds
Chevron Service Station #9-0499
404 Soquel Avenue

ae	mia
Avenu	California
sodnei	Cruz,
404	anta

WELL ID	DATE	METHANOL	L ETHANOL	TBA	MTBE	DIPE	ETBE	TAME	12-DCA	FDR
		(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)	(qdd)
MW-3	08/02/01	i	<1,000	<100	15	<2.0	<2.0	<2.0	<2.0	<2.0
	08/02/02	;		<100	750	4	4	4	\$:
	02/03/03	1	SAMPLED ANNUALLY	ALLY	ŀ	ŀ	1	ŀ	ł	;
	08/01/03	ł	ł	<100	81	4	\$	\$	\$	i
	DESTROYED - DECEMBER 2003	DECEMBER 2	:003					•		
MW-3A	07/08/04	<1,000	<500	<100	45	8	8	6	۵	ŀ
MW-7	08/02/01	1	<1,000	<100	18	<2.0	<2.0	<2.0	ł	ł
	02/13/02	;	I	<100	4	7	7	4	;	ŀ
	08/02/02	ł	I	<100	7	\$	4	\$	1	ŀ
	02/03/03	1	ı	<100	4	4	4	?	;	ł
	08/01/03	!	ŀ	<100	2	4	₽	4	:	ı
	02/05/04	ŀ	ł	<100	4	\$	4	7	;	1
	07/08/04	<1,000	<500	<100	7	۵	7	₽	1	ŀ
MW-8	07/08/04	<1,000	<500	ŀ		i	.1	·	i	
6-WM	08/02/01	1	<1,000	<100	23	<2.0	<2.0	10	i	,I
	08/02/02	1	ł	<100	6	7	4	2	ı	ł
	02/03/03	ï	SAMPLED ANNUALLY	ALLY	1	ł	;	ŀ	1	ł
	08/01/03	1	1	<100	13	4	4	3	ŀ	1
	07/08/04	<1,000	<500	<100	4	۵	7	7	ŀ	į
MW-10	07/08/04	<1,000	<500	ı	ł	ł	i		1	ŀ
E-1	08/02/01	ŀ	<1,000	<100	8.6	<2.0	<2.0	2.2	<2.0	<2.0
	02/13/02	;	1	<100	13	4	\$	4	4	ŀ
	08/02/02	ı	1	<100	\$	♡	7	۵,	\$	i
9-0499.xls/#386833	386833				17				As	As of 07/08/04

Groundwater Analytical Results - Oxygenate Compounds Chevron Service Station #9-0499 404 Soquel Avenue Santa Cruz, California Table 2

02/03/03 08/01/03 02/05/04 07/08/04	33 34 14 <1,000	: : : 200	<pre><100 <100 <100 <100</pre>	r 2 2 2 12	8 8 8 8	\$ \$ \$ \$	\$ \$ \$ \$	Q Q Q Q	. [] []
08/02/01	7 1.	<1,000	<100	17	<2.0 <2	<2.0	2.5	1 1	1 1
08/02/02	72	: :	<100	& C	8 8	8 8	\$ \$; ;	: :
08/01/03		I	<100	8	\$	7	7	1	1
02/02/04	-	1	<100	7	7	\$	4	ŀ	!
07/08/04	<1.000	<500	<100	6	\$	\$	7	ł	ł

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Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-0499 Santa Cruz, California 404 Soquel Avenue

EXPLANATIONS:

TBA = Tertiary butyl alcohol

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

1,2-DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromoethane

(ppb) = Parts per billion

-- = Not Analyzed

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 3
Joint Groundwater Monitoring Data and Analytical Results

Former Arco Station #2132 411 Soquel Avenue Santa Cruz, California

10001									
MW-1	02/13/02 01/14/03 ^{4,5}	10.98	⁻ ı ⁻ ı	\$\$ \$\$	<0.50	2.2	0.71	3.7	/<1.0 ²
	02/05/04 ⁷		I	, I	}) } 	2: 1		
MW-2	02/13/02	5.79	~ 1 ·	$2,400^3$	14	5.3	33	23	-/<1.02
	01/14/03 ^{4,5}	6.46	-1	$1,600^{6}$	<0.50	0.53	4.2	6.6	<0.50
	02/05/047	1	ı	ı	1	1	1	I	1
MW-3	02/13/02	5.98	⁻ !	<50	<0.50	<0.50	<0.50	<0.50	/<1.0 ₂
	01/14/03 ^{4,5}	5.10	71	<50	<0.50	<0.50	<0.50	<0.50	1.8
	02/05/047	ŀ	ŀ	ŀ	;	1	1	ŀ	;

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results were provided by Secor International, Inc., during the first quarter only.

TPH-G = Total Petroleum Hydrocarbons as Gasoline	MTBE = Methyl tertiary butyl ether
B = Benzene	(ppb) = Parts per billion
T = Toluene	= Not Measured/Not Analyzed
= Ethylbenzene	
X = Xylenes	
enzene oluene hylbenzene ylenes	

TOC not available

² MTBE by EPA Method 8260.

Laboratory report indicates weathered gasoline C6-C12.

⁴ TPH-G, BTEX and MTBE by EPA Method 8260

⁵ Joint Monitoring was conducted on a different date then Chevron Service Station #9-0499

⁶ Laboratory report indicates the concentration indicated for this analyte is an estimated value above the calibration range of the instrument.

⁷ Joint Monitoring was not performed; site on hold.

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to well development, each well is monitored for the presence of free-phase hydrocarbons and the depth to water is recorded. Wells are then developed by alternately surging the well with the bailer, then purging the well with a pump to remove accumulated sediments and draw groundwater into the well. Development continues until the groundwater parameters (temperature, pH, and conductivity) have stabilized.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by ChevronTexaco Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

Client/Facility #:	ChevronTexaco #9-049	9 Jo	b Number: 🙎	386833			
Site Address:				7/8/04			
City:	Santa Cruz, CA			Sampler: HAIG			
Well ID Well Diameter Initial Total Depth Final Total Depth Depth to Water	4 in. 20 280 ft. 2 1 0 2 ft. 9 3 4 ft.	Monitored: Volume Factor (VF)	3/4"= 0.02 4"= 0.66	5"= 1.02 6"= 1.50 12	"= 0.38 2"= 5.80		
Purge Equipment: Disposable Bailer Stainless Steel Baile Stack Pump Suction Pump Grundfos Other:	Samp Disport Press Discort	= 7,5 x10 (continued by x10 (c	ease volume) = Est	Time Started: Time Bailed: Depth to Product: Depth to Water: Hydrocarbon Thickness: Visual Confirmation/Descrip Skimmer / Absorbant Sock Amt Removed from Skimm Amt Removed from Well: Product Transferred to:	(2400 hrs. (2400 hrs. ft ft ft ft ft ft ft ft ft ft ft ft ft		
Start Time (purge Sample Time/Da Purging Flow Ra Did well de-wate Time (2400 hr.)	te: 240/7/8/04 te: 2-3 y-gpm. Sedimer r? NO If yes, Time	er Conditions: Water Color: nt Description: Conductivity (u mhos/cm)	CLOUD	9 Odor:	ORIA (MV)		
1215 1219 1229 1229 1239	8 7.25 16 7.12 25 7.06 35 7.19 45 7.108 1 65 7.15 4 7.5	538 563 570 577 577 577	20.0 20.6 19.5 19.5 19.5 19.5 19.5				
	LABO	ORATORY INFOR	MATION				
SAMPLE ID MW-3A	(#) CONTAINER REFRIG. F	HCL	LANCASTER	TPH-G(8015)/BTEX+MTB 6 OXYS(8260)			
	4			ISTHANOL/ME	THANOC		
COMMENTS:							



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING **FIELD DATA SHEET**

Client/Facility #:	ChevronTexac	o #9-049	9	Job Number:	386833		
, <u>-</u>	404 Soquel Av		<u> </u>	Event Date:	7/8/0	4	- (inclusi
-	Santa Cruz, CA			Sampler: HAIG K.			_
Well ID Well Diameter Total Depth Depth to Water	MW-17 4 in. 2.28 ft. 6.38 ft.	• .	Volume Factor (VI		Well Condition 1"= 0.04 2"= 0.1 5"= 1.02 6"= 1.5	7 3"= 0.38 60 12"= 5.80	
Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump	5,90 ×	Sam Disp Pres Disc	npling Equipment posable Bailer ssure Bailer crete Bailer er:		Time Started: Time Started: Time Bailed: Depth to Product: Depth to Water: Hydrocarbon Thick Visual Confirmation	kness:	2400 hrs) 2400 hrs) ft ff
Grundfos Other:					Skimmer / Absorba Amt Removed from Amt Removed from Water Removed: Product Transferre	m Skimmer: m Well:	
Start Time (purge		1	•	: CLOUD	-	ur. Al M	_
Start Time (purge Sample Time/Da Purging Flow Ra Did well de-water Time (2400 hr.)	te: 03577 te: 2 gpm.	870 Sedime	•	CLOUD'	-	or: NO	
Sample Time/Da Purging Flow Ra Did well de-water	te: 03577 te: 2 gpm.	Sedime If yes, Tim	√ Water Color ent Description ne: Conductivity	Temperature	gal.		
Sample Time/Da Purging Flow Ra Did well de-water Time (2400 hr.)	te: 03577 te: 2 gpm.	Sedime If yes, Tim	Water Color ent Description ne: Conductivity (umhos/cm) 662 689	Temperature (C/P)	gal.		
Sample Time/Da Purging Flow Ra Did well de-water Time (2400 hr.)	te: 03577 te: 2 gpm.	Sedime If yes, Tim	√ Water Color ent Description ne: Conductivity	Temperature (CIP) FORMATION	gal. D.G. (mg/L) AI TPH-G(8045)/BTE	ORD (mV) NALYSES	- - - - - -
Sample Time/Da Purging Flow Ra Did well de-water Time (2400 hr.)	te: 0 3 57 M te: 2 gpm. Volume (gal.) (#) CONTAINER	Sedime If yes, Tim pH 7, 21 LA REFRIG.	Water Color ent Description ne: Conductivity (umhos/cm) 6 8 9 6 8 9 BORATORY IN PRESERV. TYP	Temperature (C/P) FORMATION LABORATOF	gal. Dov. mg/L) AI TPH-G(8015)/BTE TPH-G(8015)/BTE COXYS(8260	ORB (mV) NALYSES EX+MTBE(8021) - C EX+MTBE(8021)	



Add/Replaced Lock: ___

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Site Address: City:	404 Soquel A Santa Cruz, C	venue A		Job Number: Event Date: Sampler:	386833 (inclusive
Well ID Well Diameter Total Depth Depth to Water	MW- 8 4 in. 13: 46 ft. 37. 86 ft. 5.60		te Monitored: $\frac{Volume}{Factor(VF)}$	3/4"= 0.02 4"= 0.66	Well Condition: 1"= 0.04 2"= 0.17 3"= 0.38 5"= 1.02 6"= 1.50 12"= 5.80 Estimated Purge Volume: gal.
Purge Equipment: Disposable Bailer Stainless Steel Baile Stack Pump Suction Pump Grundfos Other:		Dis Pre Dis	mpling Equipment: posable Bailer essure Bailer crete Bailer ner:		Time Started:(2400 hrs) Time Bailed:(2400 hrs) Depth to Product:ft Depth to Water:f Hydrocarbon Thickness:ft Visual Confirmation/Description: Skimmer / Absorbant Sock (circle one) Amt Removed from Skimmer: gal Amt Removed from Well: gal Water Removed: product Transferred to:
Start Time (purg Sample Time/D Purging Flow R Did well de-wate	ate: 2 gpm. er? 0 Volume	Sedim	ther Conditions: Water Color: ent Description: ne: Conductivity	Volume:	gal. D.Q' ORP
(2400 hr.)	(gal.) 4 4 8 11	7.18	(umhos/cm)	20.5	(1706)/L) (mV)
		LA	BORATORY INFO	RMATION	
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	
MW- S	6 x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021) -OR-
	x voa viał	YES	HGL	LANCASTER	TPH-C(8015)/BTEX+MT8E(8021). OXY9(8260)
					15 THANOL/METHANOL
					
COMMENTS:					

Add/Replaced Plug: _____ Size:___



Add/Replaced Lock: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING **FIELD DATA SHEET**

Client/Facility#:	ChevronTexaco	#9-049	9	Job Number:	386833
	404 Soquel Aven	ue		Event Date:	7/8/04 (inclu
	Santa Cruz, CA			Sampler:	HAIGK
City:	Santa Cruz, CA			Sampler.	
Weil ID	MW- 9	Date	e Monitored:	1/8/01	F Well Condition: OK
Well Diameter		Date		1000	
			Volume	3/4"= 0.02	1"= 0.04 2"= 0.17 3"= 0.38
Total Depth [_	2.43 ft.	• •	Factor (V	F) 4"= 0.66	5"= 1.02 6"= 1.50 12"= 5.80
Depth to Water	3.05 π 4.88 xvf-	0.61	6=_3_	_ x3 case volume=	Estimated Purge Volume:gal.
_		S	lina Equipmon	4.	Time Started: (2400 hrs
Purge Equipment:		4.4	npling Equipmen	n. •	Time Bailed: (2400 hrs
Disposable Bailer		•	oosable Bailer		Depth to Product:
Stainless Steel Bailer			ssure Bailer		Hydrocarbon Thickness:f
Stack Pump			crete Bailer		Visual Confirmation/Description:
Suction Pump		Oth	er:	····	- Visual Seriminators 5 - 17
Grundfos					Skimmer / Absorbant Sock (circle one)
Other:					Amt Removed from Skimmer: 9
					Amt Removed from Well: 98
					Water Removed:
					Product Transferred to:
Time (2400 hr.)	Volume	yes, Tim	Conductivity (u mhos/cm)	Temperature (C/F)	gal. D.O./ ORD (mg/L) (mV)
		LA	BORATORY IN	FORMATION	
SAMPLE ID	(#) CONTAINER R	EFRIG.	PRESERV. TYP		
MW- €	× voa vial	YES	HGL	LANCASTER	
	💪 x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)
					5_OXYS(8260)
	V				ETHAMOL/METHANOL
COMMENTS:					
				·	
Add/Replac	ed Lock:			Add/Replaced I	Plug: Size:



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Site Address:	ChevronTexaco 404 Soquel Aver		Job Number: Event Date:	386833	(inclusive
City:	Santa Cruz, CA		Sampler:	4410	<u>[X </u>
Well ID Well Diameter Total Depth Depth to Water	MW- 10 4 in. 18.87 ft. 10.78 ft. 8.09 xvF	Date Monitored: Volume Factor ()	3/4"= 0.02 VF) 4"= 0.66	Well Condition:	3"= 0.38 12"= 5.80
Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Other:	or	Sampling Equipment Disposable Bailer Pressure Bailer Discrete Bailer Other:	nt:	Depth to Product: Depth to Water: Hydrocarbon Thicknes Visual Confirmation/De	(2400 hrs) ft s:ft escription: Sock (circle one) .immer: gal ell:gal
Start Time (purg Sample Time/D Purging Flow R Did well de-wate Time (2400 hr.)	ate: 1310/f(/2 ate: 2 1/3 gpm. er? No If	Weather Condition Water Cold Sediment Description yes, Time: Conductivity (umhos/cm)	n: CLEA	R Odor:	ORD (mV)
125	6 5 6 8 10 6 10 15 6	91 420 87 436 86 433	19.6		
		LABORATORY IN			
SAMPLE ID MW-	(#) CONTAINER R x voa vial	PRESERV. TYPES HCL	LANCASTER LANCASTER	TPH-G(8015)/BTEX+N <u>TPH-G(8015)</u> /BTEX+N <u>OXYS(8260)</u>	ATBE(8021) -OR-
COMMENTS:					
Add/Repla	aced Lock:		Add/Replaced F	Plug. Size	e:_ 4



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #:	ChevronTexaco #9-049	99 Job	Number:	386833	
	104 Soquel Avenue		nt Date:	7/8/04	(inclusive
_	Santa Cruz, CA	San	npler:	HAIGK	· .
Well ID Well Diameter Total Depth Depth to Water	6 in.	e Monitored:	3/4"= 0.02 4"= 0.66	Well Condition: 3"= 0.38 5"= 1.02 6"= 1.50 12"= 5.80	*
Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Other:	Dis Pre Dis	mpling Equipment: posable Bailer essure Bailer crete Bailer	ase volume=	Time Started: Time Bailed: Depth to Product: Depth to Water: Hydrocarbon Thickness: Visual Confirmation/Description: Skimmer / Absorbant Sock (circle Amt Removed from Well: Water Removed: Product Transferred to:	gal
Start Time (purge) Sample Time/Dat Purging Flow Rat Did well de-water Time (2400 hr.)	e:		olume:	Odor:	
SAMPLE ID E-	(#) CONTAINER REFRIG. G x voa vial YES	ABORATORY INFORMATION PRESERV. TYPE HCL	MATION LABORATOR LANCASTER		
COMMENTS: Add/Replace	Ced Lock:			VEEDED, Plug: Size:	



Add/Replaced Lock: ___

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Site Address: City:	ChevronTexaco # 404 Soquel Avenu Santa Cruz, CA	ıe	Job Number: Event Date: Sampler:	386833 M/8/0 (inclusive
Well ID Well Diameter Total Depth Depth to Water	E- 3 6 in. 6 6.63 ft.	Date Monitored:	3/4"= 0.02 /F) 4"= 0.66	1"= 0.04 2"= 0.17 3"= 0.38 5"= 1.02 6"= 1.50 12"= 5.80 Estimated Purge Volume: 3 3 gal.
Purge Equipment: Disposable Bailer Stainless Steel Baile Stack Pump Suction Pump Grundfos Other:		Sampling Equipment Disposable Bailer Pressure Bailer Discrete Bailer Other:	nt:	Time Started: (2400 hrs) Time Bailed: (2400 hrs) Depth to Product: ft Depth to Water: ft Hydrocarbon Thickness: ft Visual Confirmation/Description: Skimmer / Absorbant Sock (circle one) Amt Removed from Skimmer: gal Amt Removed from Well: gal Water Removed: Product Transferred to:
Start Time (purg Sample Time/D Purging Flow R Did well de-wate (2400 hr.)	ate: 135571 (2) ate: 2 \(\) 2 \(\) 2 \(\) 2 \(\) 3 \(\) 5 \(\) 3	Weather Conditions (I) Water Color Sediment Description es, Time: Conductivity (umhos/cm)	r: <u>CUSA</u> n:	Odor:
SAMPLE ID	(/ • • • • • • • • • • • • • • • • • •	LABORATORY IN FRIG. PRESERV. TYP /ES HCL		
COMMENTS:7	46"WELL	PLUG N	IBEDE	D.

Add/Replaced Plug: _____ Size:_

Chevron California Region Analysis Request/Chain of Custody

Acct # 11200 Sample # 4309 6 35 37 □ IIO Matrix □ Potable llos 40-40-ULO GLOBAL ID# T0608700233 deanna@grinc.com Consultant/Office.G-R Inc,6747 Sierra Ct,DBbdlin, CA 94568 Fax #: 925-551-7899 255 Collected Lime Lead Consultant: SAICJM Santa Cruz, CA Collected 7/8/0 Date □Non SAR: Consultant Prj. Mgr.: Deanna L. Harding A Lancaster Laboratories G-R#386833 Site Address: 404 Soquel Avenue, Consultant Phone #: 925-551-7555 MW - 10 Haig Kevork -3X 138 JXX SE SE Where quality is a science. UU Facility #: SS#9-0499 Sample Identification Chevron PM: ML Service Order #:

*- Limited Sample

oxy s on highest hit

□ Rgn

oxy s on all hits

□ Run

Comments / Remarks

☐ Must meet lowest detection limits

☐ J value reporting needed

Ceilica Gel Cleanup

possible for 8260 compounds

Confirm highest hit by 8260

8021 MTBE Confirmation

☐ Confirm all hits by 8260

T = Thiosulfate

H= HC

B = NaOH

N = HNO3 S = H₂SO₄

0 = Other

Preservative Codes

Analyses Requested

Preservation Codes

HH

PLICO5:303174

0.Van

bottles broken

Volume - due to.

Time Time 112th Day Day 11264 Date Date ž Yes 2 Custody Seals Intact? Received by: Received by: Time Temperature Upon Receipt 15-48° Relinquished by Commercial Carriers Othe Fedfix Relinquished by: Relinquished by Turnaround Time Requested (TAT) (please circle) Coelt Deliverable not needed 5 day Data Package Options (please circle if required) 4 day Type VI (Raw Data) WIP (RWQCB) QC Summary

STD. TAI 4 hour Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

3460 Rev. 7/30/61 // (30)

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Prepared for:

ChevronTexaco 6001 Bollinger Canyon Road L4310 San Ramon CA 94583 925-842-8582

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 903474. Samples arrived at the laboratory on Tuesday, July 13, 2004. The PO# for this group is 99011184 and the release number is LAFFERTY.

Client Description		<u>Lancaster Labs Number</u>
QA-T-040708	NA Water	4309830
MW-3A-W-040708	Grab Water	4309831
MW-7-W-040708	Grab Water	4309832
MW-8-W-040708	Grab Water	4309833
MW-9-W-040708	Grab Water	4309834
MW-10-W-040708	Grab Water	4309835
E-1-W-040708	Grab Water	4309836
E-2-W-040708	Grab Water	4309837

1 COPY TO ELECTRONIC COPY TO SAIC Gettler-Ryan Attn: Ms. Deanna Harding Attn: Cheryl Hansen



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Questions? Contact your Client Services Representative Teresa L Cunningham at (717) 656-2300.

Respectfully Submitted,

Victoria M. Martell

Chemist



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Page 1 of 1

Lancaster Laboratories Sample No. 4309830

QA-T-040708

NA

Water

Facility# 90499 Job# 386833

404 Soquel Ave-Santa Cruz T0608700233 QA

GRD

Collected: 07/08/2004

Submitted: 07/13/2004 15:20

Reported: 07/20/2004 at 00:55

6001 Bollinger Canyon Road

Discard: 08/20/2004

San Ramon CA 94583

ChevronTexaco

Account Number: 11260

SOQQA

		•		As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50	ug/l	1
	The reported concentration of T gasoline constituents eluting p start time.					
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.5	ug/l	1
00777	Toluene	108-88-3	N.D.	0.5	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1

State of California Lab Certification No. 2116

Laboratory	Chronicle
Laborator V	CHIOLECTE

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	07/15/2004 09:36	Linda C Pape	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	07/15/2004 09:36	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/15/2004 09:36	Linda C Pape	n.a.



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Page 1 of 2

Lancaster Laboratories Sample No. 4309831

MW-3A-W-040708

Grab

Water

Facility# 90499 Job# 386833 GRD

404 Soquel Ave-Santa Cruz T0608700233 MW-3A

Collected: 07/08/2004 12:40

by HK

Account Number: 11260

Submitted: 07/13/2004 15:20

ChevronTexaco

Reported: 07/20/2004 at 00:55

6001 Bollinger Canyon Road

Discard: 08/20/2004

L4310

San Ramon CA 94583

SOQ3A

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01412	Methanol and Ethanol					
01414	Methanol (by Direct Injection)	67-56-1	N.D.	1,000.	ug/l	1
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TI gasoline constituents eluting prostart time.	PH-GRO does not rior to the C6	t include MTBE or (n-hexane) TPH-0	r other GRO range	•	
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.5	ug/l	1
00777	Toluene	108-88-3	N.D.	0.5	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	47.	2.5	ug/l	1
06065	5 Oxygenates+EDC+ETOH					
01587	Ethanol	64-17-5	N.D.	500.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	45.	2.	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	2.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	2.	ug/1	1
02014	t-Amyl methyl ether	994-05-8	9.	2.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	100.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	2.	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT	•			Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01412	Methanol and Ethanol	SW-846 8015B	1	07/14/2004 12:30	Lisa A Johnson	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	07/15/2004 15:04	Linda C Pape	. 1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	07/15/2004 15:04	Linda C Pape	1
06065	5 Oxygenates+EDC+ETOH	SW-846 8260B	1	07/19/2004 04:49	Marc S Neal	1

#=Laboratory MethodDetection Limit exceeded target detection limit N.D.=Not detected at or above the Reporting Limit



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Lancaster Laboratories Sample No. 4309831

MW-3A-W-040708 Facility# 90499 Grab Water

Job# 386833

GRD

404 Soquel Ave-Santa Cruz T0608700233 AC-WM

Collected:07/08/2004 12:40

by HK

Submitted: 07/13/2004 15:20 Reported: 07/20/2004 at 00:55

Discard: 08/20/2004

ChevronTexaco

Account Number: 11260

6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

SOQ3A

GC VOA Water Prep 01146 01163 GC/MS VOA Water Prep SW-846 5030B SW-846 5030B 07/15/2004 15:04 07/19/2004 04:49 Linda C Pape Marc S Neal

n.a.

#=Laboratory MethodDetection Limit exceeded target detection limit N.D.=Not detected at or above the Reporting Limit



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Page 1 of 2

4309832 Lancaster Laboratories Sample No.

MW-7-W-040708

Grab

Water

Facility# 90499

Job# 386833

GRD

404 Soquel Ave-Santa Cruz T0608700233 MW-7

Collected:07/08/2004 10:35

by HK

Account Number: 11260

As Received

Submitted: 07/13/2004 15:20 Reported: 07/20/2004 at 00:55

ChevronTexaco 6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

Discard: 08/20/2004

SOQM7

				We received			
CAT No.			As Received	Method		Dilution	
	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor	
01412	Methanol and Ethanol						
01414	Methanol (by Direct Injection)	67-56-1	N.D.	1,000.	ug/l	1	
01729	TPH-GRO - Waters						
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1	
01730	The reported concentration of gasoline constituents eluting start time.	TDH-GRO does no	t include MTBE o (n-hexane) TPH-	r other GRO range			
08214	BTEX, MTBE (8021)						
00776	Benzene	71-43-2	N.D.	0.5	ug/l	1	
00777	Toluene	108-88-3	N.D.	0.5	ug/l	1	
00778	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1	
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1	
00780	Methyl tert-Butyl Ether	1634-04-4	2.6	2.5	ug/l	1	
06064	5 Oxygenates+ETOH					·	
01587	Ethanol	64-17-5	N.D.	500.	ug/l	1	
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	2.	ug/1	1	
02011		108-20-3	N.D.	2.	ug/l	1	
02013	Ethyl t-butyl ether	637-92-3	N.D.	2.	ug/l	1	
02014		994-05-8	N.D.	2.	ug/l	1	
02015	t-Butyl alcohol	75-65-0	N.D.	100.	ug/l	1	

State of California Lab Certification No. 2116

		Laboratory	nicle Analysis			
CAT No. 01412 01729	Analysis Name Methanol and Ethanol TPH-GRO - Waters	Method SW-846 8015B N. CA LUFT Gasoline	Trial# 1 1	Date and Time 07/14/2004 12:44 07/15/2004 15:37	Analyst Lisa A Johnson Linda C Pape	Factor 1 1
08214 06064 01146	BTEX, MTBE (8021) 5 Oxygenates+ETOH GC VOA Water Prep	Method SW-846 8021B SW-846 8260B SW-846 5030B	1 ' 1 1	07/15/2004 15:37 07/19/2004 03:41 07/15/2004 15:37	Linda C Pape Marc S Neal Linda C Pape	1 1 n.a.



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Lancaster Laboratories Sample No. 4309832

MW-7-W-040708

Grab

Water

Facility# 90499 Job# 386833 GRD

404 Soquel Ave-Santa Cruz T0608700233

MW - 7

Submitted: 07/13/2004 15:20 Reported: 07/20/2004 at 00:55

Collected:07/08/2004 10:35

Account Number: 11260

by HK

ChevronTexaco

6001 Bollinger Canyon Road

Discard: 08/20/2004

L4310

San Ramon CA 94583

07/19/2004 03:41

Marc S Neal

n.a.

SOQM7

01163 GC/MS VOA Water Prep SW-846 5030B



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4309833 Lancaster Laboratories Sample No.

MW-8-W-040708

Grab

Water

Facility# 90499 Job# 386833

GRD

404 Soquel Ave-Santa Cruz T0608700233 MW-8 Collected:07/08/2004 11:10

by HK

Account Number: 11260

Submitted: 07/13/2004 15:20

ChevronTexaco

6001 Bollinger Canyon Road

Reported: 07/20/2004 at 00:55

L4310

Discard: 08/20/2004

San Ramon CA 94583

SOQM8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01412	Methanol and Ethanol					
01414	Methanol (by Direct Injection)	67-56-1	N.D.	1,000.	ug/l	1
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters The reported concentration of The gasoline constituents eluting prostart time.	n.a. PH-GRO does not rior to the C6	110. include MTBE or (n-hexane) TPH-G	50. other RO range	ug/l	1
08214	BTEX, MTBE (8021)					
00776 00777 00778 00779 00780	Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether	71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	N.D. N.D. N.D. N.D.	0.5 0.5 0.5 1.5 2.5	ug/l ug/l ug/l ug/l ug/l	1 1 1 1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	N.D.	500.	ug/l	1

State of California Lab Certification No. 2116

	Laboratory	Cnro	NICIE Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Methanol and Ethanol	SW-846 8015B	1	• •		- I
TPH-GRO - Waters	N. CA LUFT Gasoline	1	07/15/2004 16:10		1
BTEX MTRE (8021)	SW-846 8021B	1	07/15/2004 16:10	Linda C Pape	1
BTEX+5	SW-846 8260B	1	07/15/2004 13:56	Anita M Dale	1
GC VOA Water Prep	SW-846 5030B SW-846 5030B	1 1	07/15/2004 16:10 07/15/2004 13:56	Linda C Pape Anita M Dale	n.a. n.a.
	Methanol and Ethanol TPH-GRO - Waters BTEX, MTBE (8021) BTEX+5 Oxygenates+EDC+EDB+ETOH	Analysis Name Method Methanol and Ethanol SW-846 8015B TPH-GRO - Waters N. CA LUFT Gasoline Method BTEX, MTBE (8021) SW-846 8021B BTEX+5 SW-846 8260B Oxygenates+EDC+EDB+ETOH GC VOA Water Prep SW-846 5030B	Analysis Name Method Trial# Methanol and Ethanol SW-846 8015B 1 TPH-GRO - Waters N. CA LUFT Gasoline 1 Method BTEX, MTBE (8021) SW-846 8021B 1 BTEX+5 SW-846 8260B 1 Oxygenates+EDC+EDB+ETOH GC VOA Water Prep SW-846 5030B 1	Analysis Name Method Trial# Date and Time Methanol and Ethanol SW-846 8015B 1 07/14/2004 12:57 TPH-GRO - Waters N. CA LUFT Gasoline 1 07/15/2004 16:10 Method Method BTEX, MTBE (8021) SW-846 8021B 1 07/15/2004 16:10 BTEX+5 SW-846 8260B 1 07/15/2004 13:56 Oxygenates+EDC+EDB+ETOH GC VOA Water Prep SW-846 5030B 1 07/15/2004 16:10	Analysis Name Method Trial# Date and Time Analyst Methanol and Ethanol SW-846 8015B 1 07/14/2004 12:57 Lisa A Johnson TPH-GRO - Waters N. CA LUFT Gasoline 1 07/15/2004 16:10 Linda C Pape Method SW-846 8021B 1 07/15/2004 16:10 Linda C Pape BTEX, MTBE (8021) SW-846 8260B 1 07/15/2004 13:56 Anita M Dale Oxygenates+EDC+EDB+ETOH SW-846 5030B 1 07/15/2004 16:10 Linda C Pape GC VOA Water Prep SW-846 5030B 1 07/15/2004 13:10 Linda C Pape



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Lancaster Laboratories Sample No. 4309834

MW-9-W-040708

Grab

Water

Facility# 90499 Job# 386833 GRD

404 Soquel Ave-Santa Cruz T0608700233

MW-9

Account Number: 11260

Collected:07/08/2004 11:52 Submitted: 07/13/2004 15:20

Reported: 07/20/2004 at 00:55

Discard: 08/20/2004

ChevronTexaco

6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

SOQM9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01412	Methanol and Ethanol					
01414	Methanol (by Direct Injection)	67-56-1	N.D.	1,000.	ug/l	1
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters The reported concentration of Transcoline constituents eluting prostart time.	n.a. PH-GRO does not rior to the C6	N.D. include MTBE or (n-hexane) TPH-G	50. other RO range	ug/l	1
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.5	ug/l	1
00777	Toluene	108-88-3	N.D.	0.5	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1 .
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	6.3	2.5	ug/l	1
06064	5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	500.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	4.	2.	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	2.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	2.	ug/l	. 1
02014	t-Amyl methyl ether	994-05-8	N.D.	2.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	100.	ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

		Haberacery	CIII O.	111010		
CAT		~		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01412	Methanol and Ethanol	SW-846 8015B	1	07/14/2004 13:11	Lisa A Johnson	1.
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	. 1	07/18/2004 18:17	Linda C Pape	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	07/18/2004 18:17	Linda C Pape	1
06064	5 Oxygenates+ETOH	SW-846 8260B	1.	07/19/2004 04:08	Marc S Neal	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/18/2004 18:17	Linda C Pape	n.a.

#=Laboratory MethodDetection Limit exceeded target detection limit N.D.=Not detected at or above the Reporting Limit



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by HK

Page 2 of 2

4309834 Lancaster Laboratories Sample No.

MW-9-W-040708 Facility# 90499 Grab

Water

Job# 386833

GRD

404 Soquel Ave-Santa Cruz T0608700233 MW-9

Collected: 07/08/2004 11:52

ChevronTexaco

Submitted: 07/13/2004 15:20 Reported: 07/20/2004 at 00:55

6001 Bollinger Canyon Road

Discard: 08/20/2004

L4310

San Ramon CA 94583

Account Number: 11260

SOQM9

01163

GC/MS VOA Water Prep

SW-846 5030B

07/19/2004 04:08 Marc S Neal n.a.



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by HK

Page 1 of 1

4309835 Lancaster Laboratories Sample No.

MW-10-W-040708

Grab

Water

Facility# 90499

Job# 386833

GRD

404 Soquel Ave-Santa Cruz T0608700233 MW-10

Collected:07/08/2004 13:10

Account Number: 11260

Submitted: 07/13/2004 15:20

Reported: 07/20/2004 at 00:55

Discard: 08/20/2004

ChevronTexaco 6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

SOQ10

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01412	Methanol and Ethanol					
01414	Methanol (by Direct Injection)	67-56-1	N.D.	1,000.	ug/l	1
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of TF gasoline constituents eluting pr start time.	PH-GRO does not rior to the C6	: include MTBE 0: (n-hexane) TPH-0	r other GRO range		
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.5	ug/l	1,
00777	Toluene	108-88-3	N.D.	0.5	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	N.D.	500.	ug/l	1

State of California Lab Certification No. 2116

CAT		Laboratory	Chro:	nicle Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01412	Methanol and Ethanol	SW-846 8015B	1	07/14/2004 13:24	Lisa A Johnson	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	07/15/2004 16:43	Linda C Pape	. 1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	07/15/2004 16:43	Linda C Pape	1
01594	BTEX+5	SW-846 8260B	1	07/15/2004 11:40	Anita M Dale	1
01146	Oxygenates+EDC+EDB+ETOH GC VOA Water Prep	SW-846 5030B	1	07/15/2004 16:43	Linda C Pape	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	07/15/2004 11:40	Anita M Dale	n.a.



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Lancaster Laboratories Sample No. 4309836

E-1-W-040708

Grab

Water

Facility# 90499

Job# 386833

GRD

404 Soquel Ave-Santa Cruz T0608700233 E-1

Submitted: 07/13/2004 15:20 Reported: 07/20/2004 at 00:55

Discard: 08/20/2004

Collected:07/08/2004 14:40

by HK

Account Number: 11260

ChevronTexaco

6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

SOQE1

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01412	Methanol and Ethanol					
01414	Methanol (by Direct Injection)	67-56-1	N.D.	1,000.	ug/l	1
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	170.	50.	ug/l	1
	The reported concentration of T gasoline constituents eluting p start time.	PH-GRO does no rior to the Ce	ot include MTBE of (n-hexane) TPH-0	r other GRO range		
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.5	ug/1	1
00777	Toluene	108-88-3	N.D.	0.5	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	12.	2.5	ug/l	1
06065	5 Oxygenates+EDC+ETOH					
01587	Ethanol	64-17-5	N.D.	500.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	12.	2.	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	2.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	2.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	2.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	100.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	2.	ug/l	1

State of California Lab Certification No. 2116

		Laboratory	· Chro	nicle		
CAT		-	Trial#	Analysis Date and Time	Analyst	Dilution Factor
No.	Analysis Name	Method	IIIaI#		Lisa A Johnson	1
01412	Methanol and Ethanol	SW-846 8015B	. 1	07/14/2004 13:38		-
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	07/15/2004 17:16	Linda C Pape	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	07/15/2004 17:16	Linda C Pape	1
06065	5 Oxygenates+EDC+ETOH	SW-846 8260B	1	07/19/2004 05:16	Marc S Neal	1



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Page 2 of 2

4309836 Lancaster Laboratories Sample No.

Job# 386833

E-1-W-040708

Facility# 90499

Grab

GRD

404 Soquel Ave-Santa Cruz T0608700233 E-1 Collected:07/08/2004 14:40

Account Number: 11260

Submitted: 07/13/2004 15:20

Reported: 07/20/2004 at 00:55

Discard: 08/20/2004

ChevronTexaco 6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

SOQE1

01146 GC VOA Water Prep SW-846 5030B

07/15/2004 17:16

Linda C Pape

GC/MS VOA Water Prep 01163

SW-846 5030B

07/19/2004 05:16 1

Marc S Neal

n.a.



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Page 1 of 2

4309837 Lancaster Laboratories Sample No.

E-2-W-040708

Grab

Water

Facility# 90499

Job# 386833

GRD

404 Soquel Ave-Santa Cruz T0608700233 E-2

by HK

Account Number: 11260

Submitted: 07/13/2004 15:20 Reported: 07/20/2004 at 00:56

ChevronTexaco 6001 Bollinger Canyon Road

Collected:07/08/2004 13:55

L4310

Discard: 08/20/2004

San Ramon CA 94583

As Received

SOQE2

				AB ACCCATCG		Dilution
CAT			As Received	Method		
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01412	Methanol and Ethanol					
01414	Methanol (by Direct Injection)	67-56-1	N.D.	1,000.	ug/l	1
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	The reported concentration of gasoline constituents eluting patent time.	rpu-GRO does no	ot include MTBE of (n-hexane) TPH-	or other -GRO range		
08214	BTEX, MTBE (8021)	•				
00776	Benzene	71-43-2	N.D.	0.5	ug/l	1
00777	Toluene	108-88-3	N.D.	0.5	ug/l	1 .
00778	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	11.	2.5	ug/l	1
06064	5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	500.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	9.	2.	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	2.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	2.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	2.	2.	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	100.	ug/l	1

State of California Lab Certification No. 2116

CAT		Laboratory	y Chronicie Analysis			Dilution
No. 01412 01729	Analysis Name Methanol and Ethanol TPH-GRO - Waters	Method SW-846 8015B N. CA LUFT Gasoline	Trial# 1 1	Date and Time 07/14/2004 13:51 07/18/2004 18:53	Analyst Lisa A Johnson Linda C Pape	Factor 1 1
08214 06064 01146	BTEX, MTBE (8021) 5 Oxygenates+ETOH GC VOA Water Prep	Method SW-846 8021B SW-846 8260B SW-846 5030B	1 1 1	07/18/2004 18:53 07/19/2004 04:35 07/18/2004 18:53	Linda C Pape Marc S Neal Linda C Pape	1 1 n.a.



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Lancaster Laboratories Sample No. 4309837

E-2-W-040708

Grab

Water

E-2

Facility# 90499

Job# 386833

GRD

404 Soquel Ave-Santa Cruz T0608700233 Collected: 07/08/2004 13:55

Submitted: 07/13/2004 15:20

by HK

Account Number: 11260

Reported: 07/20/2004 at 00:56

ChevronTexaco

6001 Bollinger Canyon Road

L4310

San Ramon CA 94583

Discard: 08/20/2004

07/19/2004 04:35 Marc S Neal

n.a.

SOQE2

GC/MS VOA Water Prep 01163

SW-846 5030B



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Page 1 of 4

Quality Control Summary

Client Name: ChevronTexaco

Group Number: 903474

Reported: 07/20/04 at 12:56 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 041960001A	Sample n	umber(s):	4309831-43	09837				
Methanol (by Direct Injection)	N.D.	1000.	ug/l	104		76-119		
	_			00000 40	00025 4300	026		
Batch number: 04197A51A		umber(s):	4309830-43	107	106	79-123	1	30
Benzene	N.D.	0.5	ug/l	107	107	82-119	ī	30
Toluene	N.D.	0.5	ug/l		107	81-119	Ö	30
Ethylbenzene	N.D.	.5_	ug/l	108	107	82-120	Ö	30
Total Xylenes	N.D.	1.5	ug/l	109		75-125	1	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	116	116		3	30
TPH-GRO - Waters	N.D.	50.	ug/l	111	108	70-130	٥	30
Batch number: 04197A53C	Sample r	number(s):	4309834.43	09837				
Benzene	N.D.	0.5	uq/1	112	109	79-123	3	30
Toluene	N.D.	0.5	ug/l	106	103	82-119	3	30
	N.D.	.5	ug/1	103	109	81-119	5	30
Ethylbenzene	N.D.	1.5	ug/l	102	110	82-120	7	30
Total Xylenes		2.5	ug/l	115	118	75-125	2	30
Methyl tert-Butyl Ether	N.D.	50.	ug/l	95	89	70-130	7	30
TPH-GRO - Waters	N.D.	50.	ug/ I	,,,	0,5			
Batch number: Z041972AA	Sample 1	number(s):	4309833,43	09835				
Ethanol	N.D.	500.	ug/l	120		46-145		
		1 / - 1	4200027 42	00006				
Batch number: Z042001AA		number(s):	4309831,43	103836		46-145		
Ethanol	N.D.	500.	ug/l	93		77-127		
Methyl Tertiary Butyl Ether	N.D.	2.	ug/ <u>l</u>	111		67-130		
di-Isopropyl ether	N.D.	2.	ug/l	118				
Ethyl t-butyl ether	N.D.	2.	ug/l	105		74-120		
t-Amyl methyl ether	N.D.	2.	ug/l	98		79-113		
t-Butyl alcohol	N.D.	100.	ug/l	94		57-141		
1,2-Dichloroethane	N.D.	2.	ug/l	103		77-132		
Batch number: Z042002AA	Cample	number(s):	4309832.43	309834.43	09837			
	N.D.	500.	ug/1	112		46-145		
Ethanol		2.	ug/l	100		77-127		
Methyl Tertiary Butyl Ether	N.D.	2.	ug/l	108		67-130		
di-Isopropyl ether	N.D.		ug/1 ug/1	97		74-120		
Ethyl t-butyl ether	N.D.	2.		87		79-113		
t-Amyl methyl ether	N.D.	2.	ug/1			57-141		
t-Butyl alcohol	N.D.	100.	ug/l	84		21-T#T		

Sample Matrix Quality Control

MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD
ms	עפוזו	Mo/ Mon	****				_

*- Outside of specification

(2) The background result was more than four times the spike added.

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.



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Quality Control Summary

Client Name: ChevronTexaco Reported: 07/20/04 at 12:56 AM				Group Number: 903474					
Analysis Name	%REC	%REC	Limits	RPD	XAM	Conc	Conc	RPD	Max
Batch number: 041960001A			(s): 430983						
Methanol (by Direct Injection)	100	100	72-122	. 0	20				
Batch number: 04197A51A		number	(s): 430983	0-43098	33,430	9835-43098	36		
Benzene	107		67-136						
Toluene	108		78-129						
Ethylbenzene	108		75-133						
Total Xylenes	110		78-130						
Methyl tert-Butyl Ether	110		59-148						
TPH-GRO - Waters	113		63-154						
Batch number: 04197A53C	Sample	number	(s): 430983	4,43098	337				
Benzene	104	107	67-136	3	30				
Toluene	103	102	78-129	1	30				
Ethylbenzene	108	107	75-133	1	30				
Total Xylenes	110	109	78-130	0	30				
Methyl tert-Butyl Ether	111	111	59-148	0	30				
TPH-GRO - Waters	93	97	63-154	4	30				
Batch number: Z041972AA	Sample	number	(s): 430983	3,43098	335				
Ethanol	119	117	41-155	1	30				
Batch number: Z042001AA	Sample	number	(s): 430983	1,43098	336				
Ethanol	93	89	41-155	5	30				
Methyl Tertiary Butyl Ether	102	84	69-134	11	30				
di-Isopropyl ether	127	125	75-130	2	30				
Ethyl t-butyl ether	113	111	78-119	1	30				
t-Amyl methyl ether	104	102	77-117	2	30				
t-Butyl alcohol	98	97	51-147	1	30				
1,2-Dichloroethane	108	106	73-136	2	30				
Batch number: Z042002AA	Sample	number	(s): 430983	2,43098	334,430	9837			
Ethanol	118	116	41-155	1	30				
Methyl Tertiary Butyl Ether	101	99	69-134	2	30				
di-Isopropyl ether	110	108	75-130	2	30				
Ethyl t-butyl ether	95	94	78-119	1	30				
t-Amyl methyl ether	88	85	77-117	3	30				
t-Butyl alcohol	84	83	51-147	Ō	30				

Surrogate Quality Control

Analysis Name: Methanol and Ethanol Batch number: 041960001A

Acetone

4309831	98
4309832	97
4309833	99
4309834	99
4309835	103
4309836	100
4309837	100
Blank	99
LCS	98

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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Quality Control Summary

Client Name: ChevronTexaco

Group Number: 903474

Reported: 07/20/04 at 12:56 AM

<u>.</u>	. 07/20/04 at 12.30 A	Surrogate Qu	ality Control	•
1S	98	_		
ISD	99			
imits:	80-132			
	ame: TPH-GRO - Waters			
atch numbe	er: 04197A51A			
	Trifluorotoluene-F	Trifluorotoluene-P		
309830	104	101		
309831	110	103		•
309832	106	101		
309833	106	100		
309835	107	104		
309836	104	105		
lank	104	102		
CS	112	104		
CSD	113	104		
S	110	105		
imits:	57-146	66-136		
malasada M	ome . MDU CDO . W-have			
	ame: TPH-GRO - Waters er: 04197A53C			
acci numb	Trifluorotoluene-F	Trifluorotoluene-P		
309834	97	102		
309837	98	94		
lank	97	103		
CS	95	107		
CSD	104	104		
S	96	101		
SD	98	100		
Limits:	57-146	66-136		
Analysis N	Name: BTEX+5 Oxygenates+ED	C+EDB+ETOH		
Batch numb	er: Z041972AA		m.1	4-Bromofluorobenzer
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	
309833	104	107	109	96 96
309835	103	107	110	95
lank	103	107	109	
JCS	102	106	109	97
(S	102	108	109	98
1SD	102	108	110	98
Limits:	81-120	82-112	85-112	83-113
Analysis 1	Name: 5 Oxygenates+EDC+ETC	DH		
Batch numl	per: Z042001AA		_	
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzer
1309831	96	96	95	87
1309836	95	97	98	88
lank	95 97	98	98	88
	96	99	98	91
LCS			97	91
MS	96	99	21	~ ~

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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Quality Control Summary

Client Name: ChevronTexaco

Group Number: 903474

Reported: 07/20/04 at 12:56 AM

Surrogate Quality Control

		Surrogate Q			
MSD	97	99	97	90	
Limits:	81-120	82-112	85-112	83-113	
	Name: 5 Oxygenates+ETOH ber: Z042002AA Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	
4309832	105	106	107	93	
4309834	106	105	107	94	
4309837	105	105	106	95	
Blank	106	107	107	93	
LCS	105	105	108	98.,	
MS	106	106	108	97	
MSD	105	106	108	97	
T.imits.	81-120	82-112	85-112	83-113	

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.



Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	degrees Celsius	·	degrees Fahrenheit
meg	milliequivalents	lb.	pound(s)
g g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
mĬ	milliliter(s)	1	liter(s)
m3	cubic meter(s)	. ul	microliter(s)
			and a complete

- less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- J estimated value The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- **Dry weight basis**Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

	Organic Qualifiers		inorganic Qualifiers
A B C D	TIC is a possible aldol-condensation product Analyte was also detected in the blank Pesticide result confirmed by GC/MS Compound quantitated on a diluted sample	B E M N	Value is <crdl, but="" control="" due="" duplicate="" estimated="" injection="" interference="" limits<="" met="" not="" precision="" sample="" spike="" th="" to="" within="" ≥idl=""></crdl,>
. E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
Р	Concentration difference between primary and	W *	Post digestion spike out of control limits
	confirmation columns >25%	*	Duplicate analysis not within control limits
· U	Compound was not detected	+	Correlation coefficient for MSA < 0.995
X,Y,Z	Defined in case narrative		•

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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ATTACHMENT E CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION



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ANALYTICAL RESULTS

Prepared for:

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 894218. Samples arrived at the laboratory on Friday, April 30, 2004. The PO# for this group is 99011184 and the release number is LAFFERTY.

		Lancaster Labs Number
Grab	Soil	4264652
Grab	Soil	4264653
Grab	Soil	4264654
Grab	Soil	4264655
	Grab Grab	Grab Soil Grab Soil

1 COPY TO

SAIC

Attn: Joe Muzzio



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Questions? Contact your Client Services Representative Teresa L Cunningham at (717) 656-2300.

Respectfully Submitted,

Jenfu E Hess Group Leader



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Lancaster Laboratories Sample No. SW 4264652

MW-3A-S-6-040429 Facility# 90499

Grab Soil

SAIC

404 Soquel Ave Santa Cruz T0608700233 NA

Collected: 04/29/2004 09:11 by KB

Account Number: 11255

Submitted: 04/30/2004 10:30

ChevronTexaco

Reported: 05/07/2004 at 13:21

6001 Bollinger Canyon Rd L4310

Discard: 06/07/2004

San Ramon CA 94583

CA3A6

a.m				As Received		
CAT	a. a		As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The analysis for volatiles was in methanol. The reporting lim The reported concentration of T gasoline constituents eluting p start time.	its were adjus PH-GRO does no	ted appropriately t include MTRE or	other		
01428	Methanol and Ethanol					
01429	Ethanol (by Direct Injection)	64-17-5	N.D.	0.20		-
01431	Methanol (by Direct Injection)	67-56-1	N.D.	0.20	mg/kg mg/kg	1 1
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	0.082	0.0005	mg/kg	1.01
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.01
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.01
02019	t-Amyl methyl ether	994-05-8	0.026	0.001	mg/kg	1.01
02020	t-Butyl alcohol	75-65-0	0.13	0.020	mg/kg	1.01
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.01
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.01
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.01
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.01
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.01
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.01

C 3 m		Laboratory	Chro:	nicle		
CAT No. 01725	Analysis Name TPH-GRO - Soils	Method N. CA LUFT Gasoline method	Trial#	Analysis Date and Time 05/04/2004 06:41	Analyst Deborah S Garrison	Dilution Factor 25
01428	Methanol and Ethanol	SW-846 8015B (modified)	1	05/05/2004 03:11	Tiffany A George	1
07361 00374 00380	BTEX+5 Oxygenates+EDC+EDB GC/MS VOA Soil Prep Direct Injection Solids Ext	SW-846 8260B SW-846 5030A SW-846 8015B	1	05/04/2004 02:03 05/03/2004 23:47 05/03/2004 19:00	Anastasia Papadoplos Anastasia Papadoplos Tiffany A George	1.01 n.a. 1
01150	GC VOA Soil Prep	SW-846 5035	1	04/30/2004 15:34	Eric L Vera	n.a.



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Lancaster Laboratories Sample No. SW 4264652

MW-3A-S-6-040429 Facility# 90499

Grab Soil

404 Soquel Ave Santa Cruz T0608700233 NA

SAIC

Collected: 04/29/2004 09:11

Account Number: 11255

Submitted: 04/30/2004 10:30

Reported: 05/07/2004 at 13:21

ChevronTexaco

6001 Bollinger Canyon Rd L4310

Discard: 06/07/2004

San Ramon CA 94583

CA3A6



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Lancaster Laboratories Sample No. 4264653

MW-3A-S-9-040429 Facility# 90499

Grab Soil

404 Soquel Ave Santa Cruz T0608700233 NA

Collected: 04/29/2004 09:39

Submitted: 04/30/2004 10:30

Reported: 05/07/2004 at 13:21

Discard: 06/07/2004

Account Number: 11255

ChevronTexaco

SAIC

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

CA3A9

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The analysis for volatiles was in methanol. The reporting lim The reported concentration of T gasoline constituents eluting p start time.	its were adjus PH-GRO does no	ted appropriately t include MTBE or	other		
01428	Methanol and Ethanol					
01429	Ethanol (by Direct Injection)	64-17-5	N.D.	0.20	mg/kg	1
01431	Methanol (by Direct Injection)	67-56-1	N.D.	0.20	mg/kg	1
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.99
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.99
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.99
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.99
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.99
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.99
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.99
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.99
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.99
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.99

Laboratory	Chronicle
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CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01725	TPH-GRO - Soils	N. CA LUFT Gasoline method	1	05/04/2004 07:18	Deborah S Garrison	25
01428	Methanol and Ethanol	SW-846 8015B (modified)	1	05/05/2004 03:51	Tiffany A George	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	05/04/2004 02:35	Anastasia Papadoplos	0.99
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	05/03/2004 23:48	Anastasia Papadoplos	
00380	Direct Injection Solids Ext	SW-846 8015B	1	05/03/2004 19:00	Tiffany A George	1
01150	GC VOA Soil Prep	SW-846 5035	1	04/30/2004 15:37	Eric L Vera	n a



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Lancaster Laboratories Sample No. SW 4264653

MW-3A-S-9-040429 Facility# 90499

Grab Soil

SAIC

404 Soquel Ave Santa Cruz T0608700233 NA

Collected: 04/29/2004 09:39 by KE

Submitted: 04/30/2004 10:30 Reported: 05/07/2004 at 13:21

Discard: 06/07/2004

Account Number: 11255

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

CA3A9



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Lancaster Laboratories Sample No. SW 4264654

MW-3A-S-15-040429

Grab

Soil

SAIC

Facility# 90499

404 Soquel Ave Santa Cruz T0608700233 NA

Collected: 04/29/2004 09:46

Account Number: 11255

Submitted: 04/30/2004 10:30

Reported: 05/07/2004 at 13:21

Discard: 06/07/2004

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

CAA15

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
01725	The analysis for volatiles was prin methanol. The reporting limit The reported concentration of The gasoline constituents eluting present time.	its were adjus PH-GRO does no	ted appropriately t include MTBE or	other		
01428	Methanol and Ethanol					
01429	Ethanol (by Direct Injection)	64~17-5	N.D.	0.20	mg/kg	1
01423	Methanol (by Direct Injection)	67-56-1	N.D.	0.20	mg/kg	1
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	0.005	0.0005	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1

CAT		Laboratory	Chro	nicle Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01725	TPH-GRO - Soils	N. CA LUFT Gasoline	1	05/04/2004 07:54	Deborah S Garrison	25
01428	Methanol and Ethanol	method SW-846 8015B (modified)	1	05/05/2004 04:05	Tiffany A George	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	05/04/2004 03:05		
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	05/03/2004 23:49		n.a.
00374	Direct Injection Solids	SW-846 8015B	1	05/03/2004 19:00	Tiffany A George	1
01150	Ext GC VOA Soil Prep	SW-846 5035	1	04/30/2004 15:41	Eric L Vera	n.a.



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Soil

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Lancaster Laboratories Sample No. 4264654

MW-3A-S-15-040429 Facility# 90499

Grab

404 Soquel Ave Santa Cruz T0608700233 NA

SAIC

Collected: 04/29/2004 09:46

Account Number: 11255

Submitted: 04/30/2004 10:30

ChevronTexaco

Reported: 05/07/2004 at 13:21

6001 Bollinger Canyon Rd L4310

Discard: 06/07/2004

San Ramon CA 94583

CAA15



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Lancaster Laboratories Sample No.

MW-3A-S-19-040429

Grab Soil

Facility# 90499

SAIC

404 Soquel Ave Santa Cruz T0608700233 NA Collected:04/29/2004 09:55

Submitted: 04/30/2004 10:30

ChevronTexaco

Reported: 05/07/2004 at 13:21

6001 Bollinger Canyon Rd L4310

04/30/2004 15:48 Eric L Vera

n.a.

Discard: 06/07/2004

San Ramon CA 94583

Account Number: 11255

CAA19

CAT No. 01725	Analysis Name TPH-GRO - Soils The analysis for volatiles was pin methanol. The reporting liming The reported concentration of Tigasoline constituents eluting prostart time.	lts were adjust PH-GRO does not	ed appropriately	,	Units mg/kg	Dilution Factor 25
01428	Methanol and Ethanol					
01429 01431 07361	Ethanol (by Direct Injection) Methanol (by Direct Injection) BTEX+5 Oxygenates+EDC+EDB	64-17-5 67-56-1	N.D. N.D.	0.20 0.20	mg/kg mg/kg	1
02016 02017 02018 02019 02020 05460 05461 05466 05471 05474 06301	Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Benzene 1,2-Dichloroethane Toluene 1,2-Dibromoethane Ethylbenzene Xylene (Total)	1634-04-4 108-20-3 637-92-3 994-05-8 75-65-0 71-43-2 107-06-2 108-88-3 106-93-4 100-41-4 1330-20-7	0.003 N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	0.0005 0.001 0.001 0.001 0.020 0.0005 0.001 0.001 0.001	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	1.01 1.01 1.01 1.01 1.01 1.01 1.01 1.01

CAT		Laboratory	Chro	nicle		
No. 01725	Analysis Name TPH-GRO - Soils	Method N. CA LUFT Gasoline method	Trial#	Analysis Date and Time 05/04/2004 08:31	Analyst Deborah S Garrison	Dilution Factor 25
01428	Methanol and Ethanol	SW-846 8015B (modified)	1	05/05/2004 04:18	Tiffany A George	1
07361 00374 00380	BTEX+5 Oxygenates+EDC+EDB GC/MS VOA Soil Prep Direct Injection Solids Ext	SW-846 8260B SW-846 5030A SW-846 8015B		05/04/2004 03:36 05/03/2004 23:51 05/03/2004 19:00	Anastasia Papadoplos Anastasia Papadoplos Tiffany A George	
01150	GC VOA Soil Prep	SW-846 5035	1	04/30/2004 15:48	Eric L Vera	n a



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Lancaster Laboratories Sample No. SW 4264655

MW-3A-S-19-040429 Facility# 90499

Grab

Soil

SAIC

404 Soquel Ave Santa Cruz T0608700233 NA

Collected:04/29/2004 09:55

Account Number: 11255

Submitted: 04/30/2004 10:30

ChevronTexaco

Reported: 05/07/2004 at 13:21

6001 Bollinger Canyon Rd L4310

Discard: 06/07/2004

San Ramon CA 94583

CAA19



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Quality Control Summary

Client Name: ChevronTexaco Reported: 05/07/04 at 01:21 PM

Group Number: 894218

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

					_			
Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 041240030A Ethanol (by Direct Injection) Methanol (by Direct Injection)	Sample nu N.D. N.D.	umber(s): 200. 200.	4264652-42 ug/kg ug/kg	64655 95 112		85-121 79-117	<u></u>	KPD Max
Batch number: 04124A34A TPH-GRO - Soils	Sample nu N.D.	mber(s): 1.0	4264652-42 mg/kg	64655 110		67-119		
Batch number: D041181AB Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Benzene 1,2-Dichloroethane Toluene 1,2-Dibromoethane Ethylbenzene Xylene (Total)	Sample nu N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	mber(s): 0.5 1. 1. 20. 0.5 1. 1. 1.	4264652-420 ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	54655 97 88 93 92 86 94 89 88 89 88 92		75-125 70-129 71-124 74-117 51-160 83-118 76-126 81-116 77-114 82-115 82-117		

Sample Matrix Quality Control

		E		-x &c	att C	y Contr	OT		
Analysis Name	MS %REC	MSD %REC	MS/MSD <u>Limits</u>	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 041240030A Ethanol (by Direct Injection) Methanol (by Direct Injection)	Sample 76 102	number 80 107	(s): 426465 73-109 61-118	2-42646 5 5	55 20 20				& State of S
Batch number: 04124A34A TPH-GRO - Soils	Sample 95	number 80	(s): 426465: 39-118	2-42646 17	55 30				
Batch number: D041181AB Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Benzene 1,2-Dichloroethane Toluene 1,2-Dibromoethane	Sample 88 82 87 83 60 90 82 85	number 91 84 89 86 67 89 84 83	(s): 426465: 57-136 55-132 58-127 58-126 38-160 52-141 57-137 45-142 61-125	2-42646 2 1 1 3 9 2 1 3	55 30 30 30 30 30 30 30 30 30 30				

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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Quality Control Summary

Client Name: ChevronTexaco

Reported: 05/07/04 at 01:21 PM

Group Number: 894218

Sample Matrix Quality Control

Analysis Name	MS <u>%REC</u>	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP <u>Conc</u>	DUP RPD	Dup RPD Max
Ethylbenzene Xylene (Total)	83 88	81 87	40-143 40-143	3 2	3 0 3 0	<u></u>	<u> </u>	KID	110V

Surrogate Quality Control

Analysis Name: Methanol and Ethanol

Acetone

Batch number: 041240030A

4264652	89
4264653	94
4264654	92
4264655	76
Blank	98
LCS	100
MS	87
MSD	90

Limits: 64-128

Analysis Name: TPH-GRO - Soils Batch number: 04124A34A

Trifluorotoluene-F

4264652	81
4264653	88
4264654	78
4264655	73
Blank	112
LCS	113
MS	89
MSD	98

Limits: 71-122

Analysis Name: BTEX+5 Oxygenates+EDC+EDB

Batch number: D041181AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4264652	101	86	87	84
4264653 4264654	101 102	88	86	85
4264655	104	84 88	89 93	85
Blank	98	88	93 86	70 83
LCS MS	98 . 96	92 86	86	81
MSD	99	87	87 86	80
Limits:	Ho 100			80
TIMITES:	70-129	70-121	70-130	70-128

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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Quality Control Summary

Client Name: ChevronTexaco Reported: 05/07/04 at 01:21 PM

Group Number: 894218

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies. White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

3460 Rev. 10/04/01